

SAMSUNG

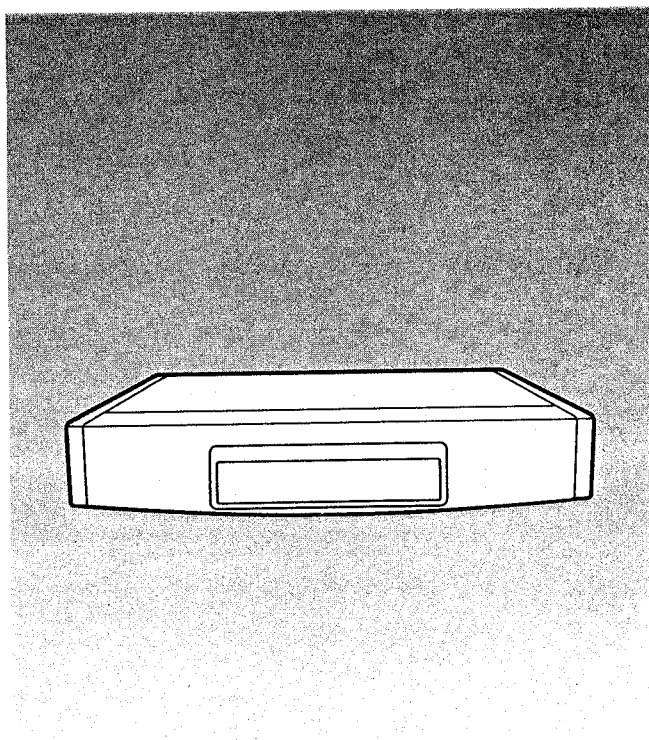
VIDEO CASSETTE RECORDER

SV-300W



SERVICE *Manual*

VIDEO CASSETTE RECORDER



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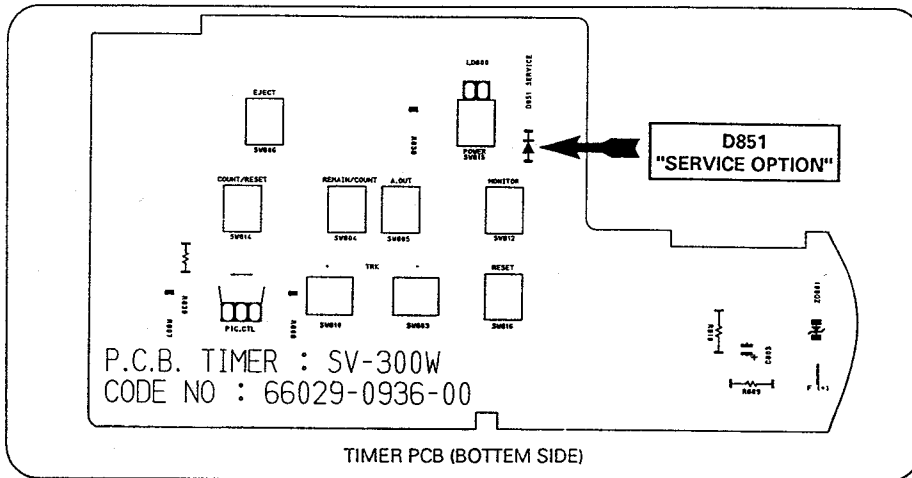
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IMPORTANT SERVICE GUIDE

1. SERVICE GUIDE

For this VCR chassis, the sensors (Start/End/Reel) are located on the main PCB not on the deck ass'y. To emulate the function of the sensors, install "DIODE(1N4148)" at "D851" on the timer PCB. (See diagram below)

NOTE: After connecting extension cables 1, 2, 3, 4 between deck ass'y and main PCB, to make a cassette load, cover the start sensor, then, press and hold a cassette in the housing ass'y.

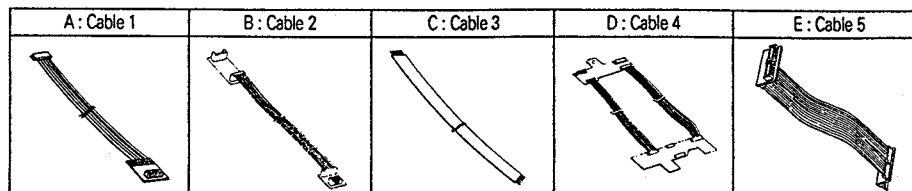


TIMER PCB (BOTTEM SIDE)

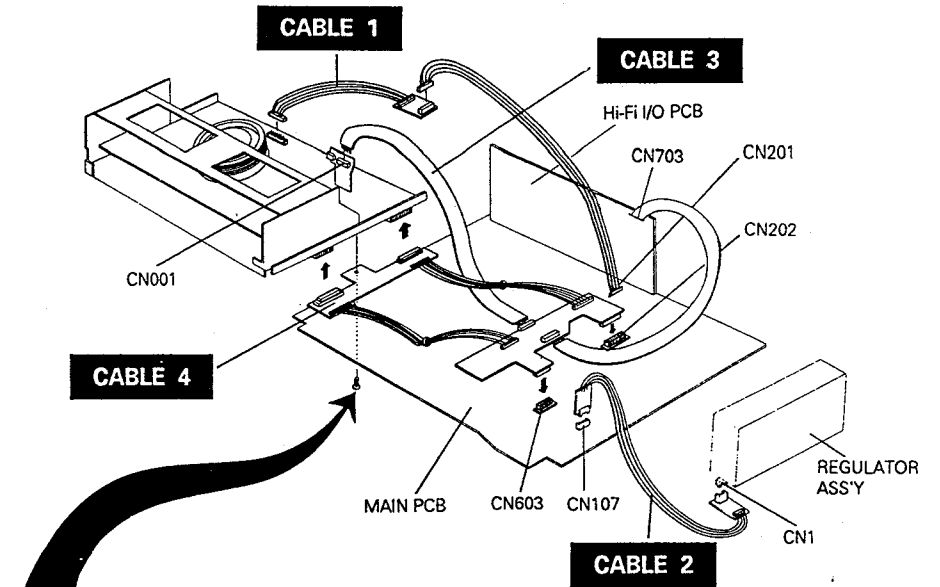
NOTE: After completing repairs remove "DIODE(1N4148)" at "D851" on the timer PCB.

2. SERVICE JIG

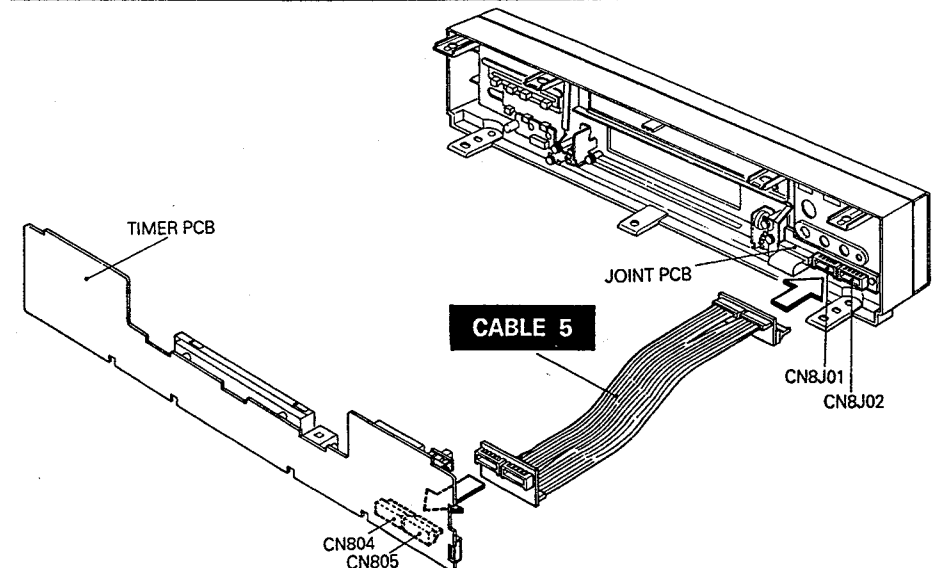
JIG ITEM	PART-NO.	USE	DIAGRAM NO.
Extension			
Cable 1	68140-300-112	Use for DRUM MOTOR ↔ MAIN PCB (CN201) connecting cable	A
Cable 2	68140-300-105	Use for REGULATOR (CN01) ↔ MAIN PCB (CN107) connecting cable	B
Cable 3	68140-300-106	Use for A/C Head (CN001) ↔ Extension Cable 4 connecting cable	C
Cable 4	68140-300-107	Use for DECK ↔ MAIN PCB (CN202, CN603) connecting cable	D
Cable 5	68140-500-104	Use for TIMER PCB (CN804, CN805) ↔ JOINT PCB (CN8J01, CN8J02)	E



3. HOW TO CONNECT THE EXTENSION CABLE



NOTE: Remove one(1) screw from the eject drive gear and connect extension cable 3, and install the screw again.



1. PRECAUTIONS

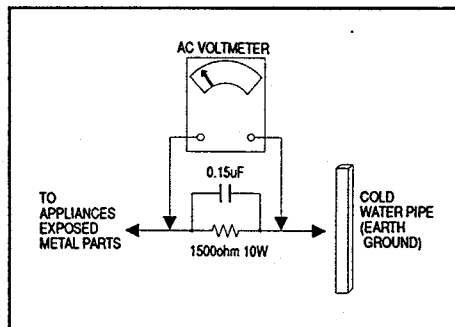
1-1. SAFETY PRECAUTIONS

GENERAL GUIDE LINE

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation paper shields are properly installed.
3. Use an isolation transformer when servicing.
4. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 to 5.2 megohms. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .



LEAKAGE CURRENT HOT CHECK (See Fig.)

1. Plug the AC cord directly into the AC outlet. (Do not use an isolation transformer for this check.)
2. Connect a 1.5K, 10 watt resistor, in parallel with a 0.15uF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.

6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester may be used to make the hot checks, leakage current must not exceed 0.5 milliamp. If a measurement is outside the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

1-2. ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called "Electrostatically Sensitive (ES) Devices". Examples of typical ES devices are integrated circuits, some field effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise, harmless motion such as the brushing together of your clothes fabric to the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

1-3. SAFETY INSTRUCTIONS

1. **Read Instructions:** All the safety and operating instructions should be read before the unit is operated.
2. **Retain Instructions:** The safety and operating instructions should be retained for future reference.
3. **Heed Warnings:** All warnings on the unit and the operating instructions should be adhered to.
4. **Follow Instructions:** All operating and maintenance instructions should be followed.
5. **Cleaning:** Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for dusting cabinet.
6. **Attachments:** Do not use attachments not recommended by the unit product manufacturer, as they may be hazardous or cause damage.
7. **Water and Moisture:** Do not use this unit near water, i.e. bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or the lake.
8. **Accessories:** Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit, if dropped could cause damage or injury. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the unit. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
- a. An appliance and cart combination should be moved with care. Quick stops, excessive force, or an uneven surface may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING (Symbol provided by RETAC)



9. **Ventilation:** Slot and opening in the cabinet are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. Never place your unit on a bed, sofa, rug, or similar surface, nor on or near a radiator or heat register. This unit should not be placed in a built-in installation such as a book case or rack unless proper ventilation is provided, or manufacturer's instructions have been adhered to.
10. **Power Sources:** This unit should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. To operate the unit by battery or other power source, consult the operating instructions.
11. **Grounding and Polarization:** This unit may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your outlet. Do not defeat the safety purpose of the polarized plug.
12. **Power-Cord Protection:** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. This applies especially to cords of plugs and convenience receptacles, at the point where they exit from the unit.
13. **Lightning:** For added protection of this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage of the unit from lightning and power-line surges.
14. **Power Lines:** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
15. **Overloading:** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
16. **Objects and Liquids:** Never push objects of any kind into the unit as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquids of any kind onto the unit. Should a spill occur, unplug unit and have it checked by a technician before using.

17. Servicing : Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
Refer all servicing to qualified service person.

18. Damage Requiring Service : Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions :

- a. When the power-supply cord or plug is damaged.
- b. If any liquid has been spilled into, or objects have fallen in the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instruction, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.

WARNING :
Lithium battery - Danger of explosion if incorrectly replaced.
Must only be replaced by a battery of same make and type.
Used batteries shall be returned to the supplier.

- e. If the unit has been dropped or the cabinet has been damaged.
- f. When the unit exhibits a distinct change in performance, this indicates a need for service.

19. Replacement Parts : When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

20. Safety Check : Upon completion of any service or repairs to this unit, the safety check procedure should be performed.

IMPORTANT SAFETY NOTICE

There are special components in this equipment which are important for safety. These parts are marked by Δ in the schematic diagram, exploded views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts owing to shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

2. SPECIFICATIONS

Operation	Description	
Recording system	Rotary head azimuth recording, luminance signal FM recording system Chrominance signal down converted phase shift recording system (NTSC, PAL, PAL M) Chrominance signal down converted direct recording system (MESECAM) Chrominance signal 1/4 frequency countdown direct recording system (SECAM)	
Signal system	NTSC 3.58, NTSC 4.43, PAL, PAL-M, PAL-N, SECAM	
Tape recording/Playback	NTSC, PAL, PAL-M, SECAM, MESECAM	
Tape speed	NTSC	33.35 mm/sec (standard recording)
	PAL-M	16.675 mm/sec (when playing the double speed recording tape) 11.12 mm/sec (three times recording)
	PAL	22.39 mm/sec (standard recording)
	MESECAM SECAM	11.69 mm/sec (double speed recording)
Tape format	VHS type video tape	
Recording time	Maximum 8 hours (with a T-160 or E-240 tape)	
Rewinding time	Within 3 minutes (High speed rewinding, T-120, and E-180 tape)	
Video		
Input	1.0Vp-p 75 ohm unbalanced	
Output	1.0Vp-p 75 ohm unbalanced	
Signal-to-noise ratio	Above 45dB (Standard recording NTSC)	
Horizontal resolution	Above 220 (Standard recording NTSC), Above 240 (Standard recording PAL)	
Audio		
Input	- 8 dBm	
Output	- 6 dBm (Hi-Fi), -7 dBm (Mono)	
Signal-to-noise ratio	Above 39dB (Mono), 65dB (Hi-Fi)	
Frequency response	20Hz ~ 20kHz (Hi-Fi standard recording), 100Hz ~ 10kHz (Standard recording NTSC) 100Hz ~ 8kHz (Standard recording PAL), 100Hz ~ 5kHz (SLP, LP)	
Rated voltage	See option table	
Rated frequency	See option table	
Power consumption	Approx. 25 watts on recording : 5 watts off	
Working ambient temperature	41°F - 104°F (5°C - 40°C)	
Installation conditions	Operation Position : Horizontal, Relative humidity : Below 80%	
Weight and dimensions	6.0Kg - 453(W) X 332(L) X 87.5(H) mm	

※ Option Table (Voltage Range)

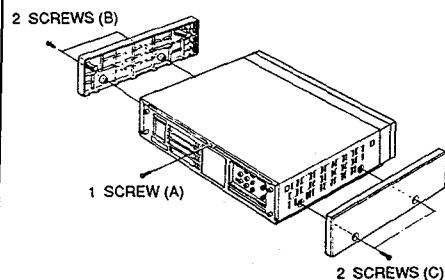
Voltage	Frequency	Nation & Region
AC 100V	50/60 Hz	Japan
AC230V	50 Hz	Europe, CIS, China, Hongkong
AC100V ~ 230V	50/60 Hz	Middle/East Asia, South/East Asia

3. DISASSEMBLY

3-1. Instrument & PCB Disassembly

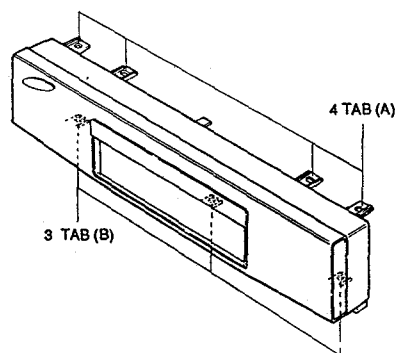
Please dismantle in the order shown.
Reassemble in reverse order.

3-1-1. Top Cabinet & Side Panel Removal



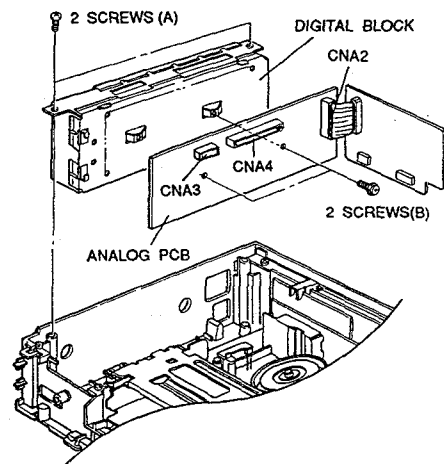
- 1) Remove 1 screw (A), 2 screws (B) and 2 screws (C) on the side & rear of the top cabinet.
- 2) Remove the side panel.
- 3) Carefully lift the back of the top cabinet and slide it to the rear to remove.

3-1-2. Panel Front Removal



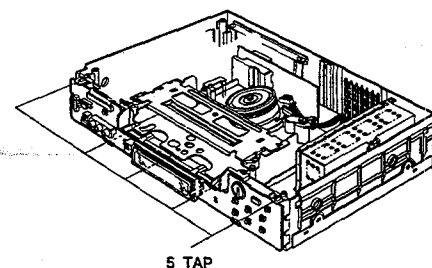
- Release 4 tabs (A) and 3 tabs (B) and then pull the front panel forward.

3-1-3. Analog PCB/Digital Block Removal



- 1) Disconnect CNA2, CNA3 and CNA4.
- 2) Remove 2 screws (A) and then lift the digital block.
- 3) Remove 2 screws (B) and then lift the analog PCB.

3-1-4. FUNCTION/TIMER PCB Removal

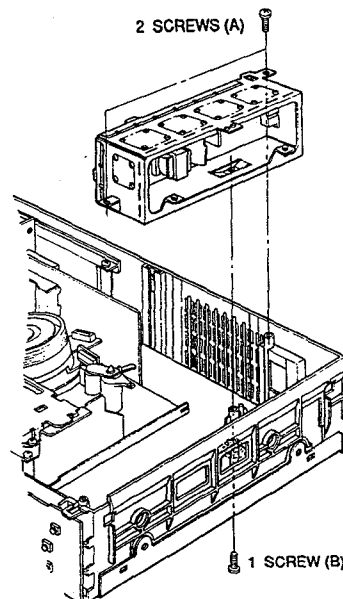


- 1) Disconnect CN801, CN802 and CN803.
- 2) Release 5 tabs holding the function/timer PCB and pull the function/timer forward.

NOTE:

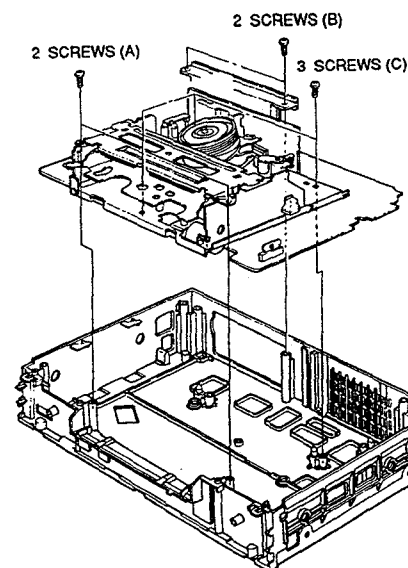
1. When removing the chassis unit ass'y, be careful not to damage the main PCB front.
2. When reinstalling the deck on the main PCB, be careful not to damage the sensor.

3-1-5. Regulator Ass'y Removal



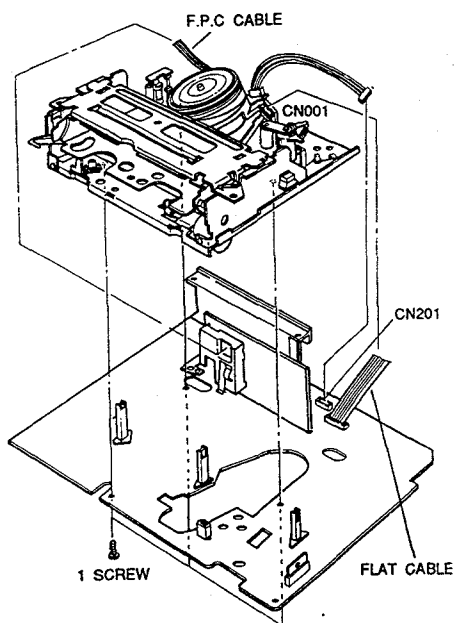
- 1) Remove 2 screws (A) and 1 screw (B).
- 2) Lift the regulator ass'y.

3-1-6. Chassis Ass'y Removal



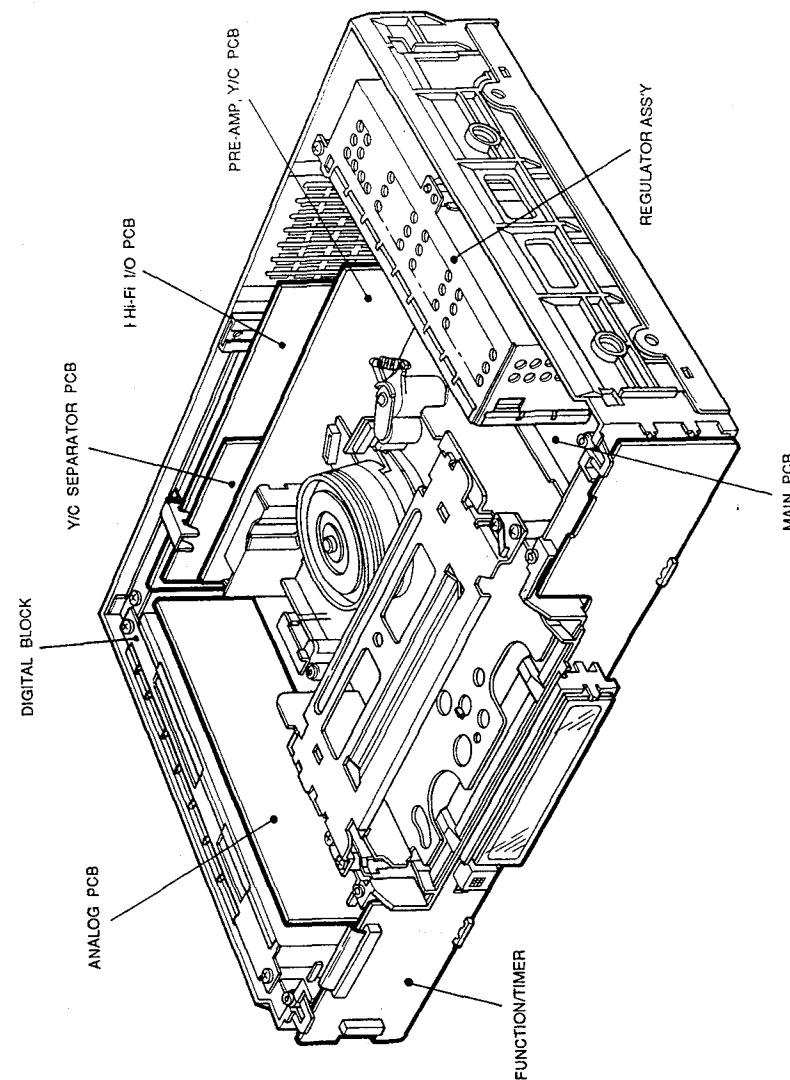
- Remove 2 screws (A), 2 screws (B) and 3 screws (C) and lift the chassis unit.

3-1-7. Deck Removal from Main PCB



- 1) Remove CN201 connected to the main PCB & the cylinder ass'y.
- 2) Remove F.P.C cable connected to the pre-amp/video PCB.
- 3) Remove Flat cable connected to A/C head.
- 4) Remove 3 screws holding the main PCB & deck and lift the deck ass'y.

3-1-8. PCB Locations



3-2. Deck Parts Locations

3-2-1. Top View

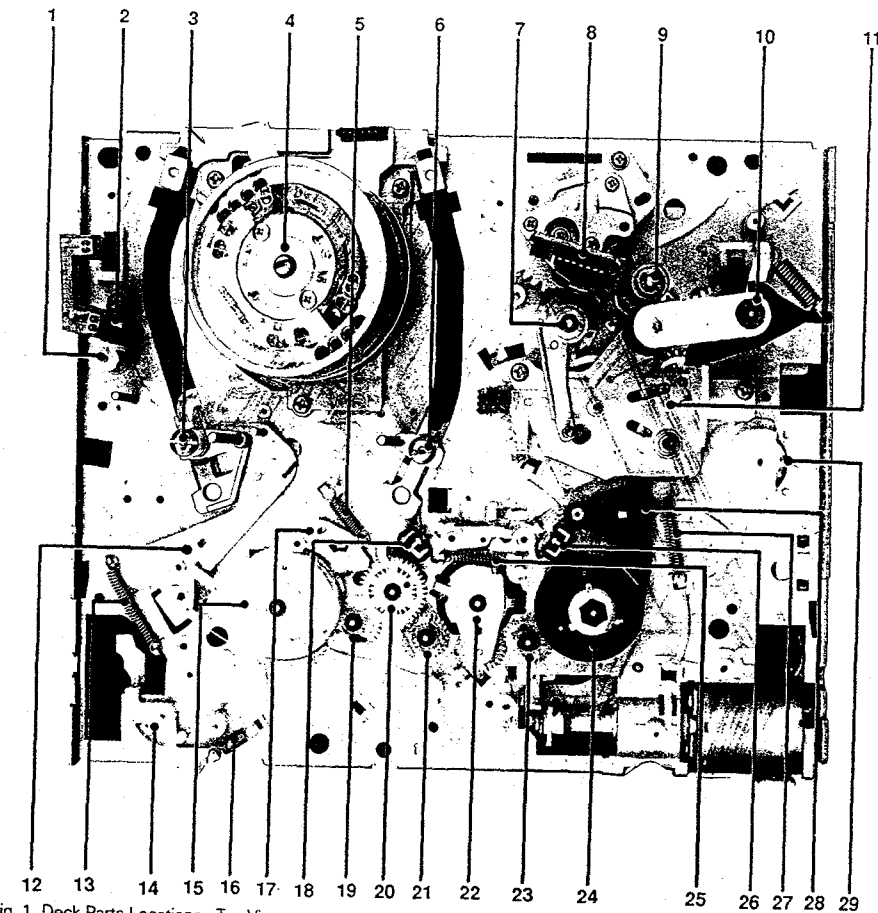


Fig. 1 Deck Parts Locations - Top View

1. SUPPLY ROLLER
2. F/E HEAD ASS'Y
3. PB & G.R (L)
4. CYLINDER ASS'Y
5. S/P BRAKE SUB "L"
6. PB & G.R (R)
7. REVIEW ARM ASS'Y
8. A/C HEAD ASS'Y
9. CAPSTAN SHAFT
10. PINCH ROLLER UNIT

11. UNIT DRIVE PINCH
12. ARM TENSION ASS'Y
13. SPRING TENSION
14. LEVER REC S/W
15. REEL DISK "L"
16. S/P RECORD S/W
17. BRAKE SUB "L"
18. BRAKE MAIN "L" ASS'Y
19. GEAR RELAY S3
20. GEAR RELAY S2

21. GEAR RELAY S1
22. IDLER SUB ASS'Y
23. GEAR RELAY "T"
24. REEL DISK "R"
25. S/P BRAKE MAIN
26. BRAKE MAIN "R" ASS'Y
27. S/P BRAKE SUB "R"
28. BRAKE SUB "R" ASS'Y
29. GEAR EJECT DRIVE

3-2-2. Bottom View

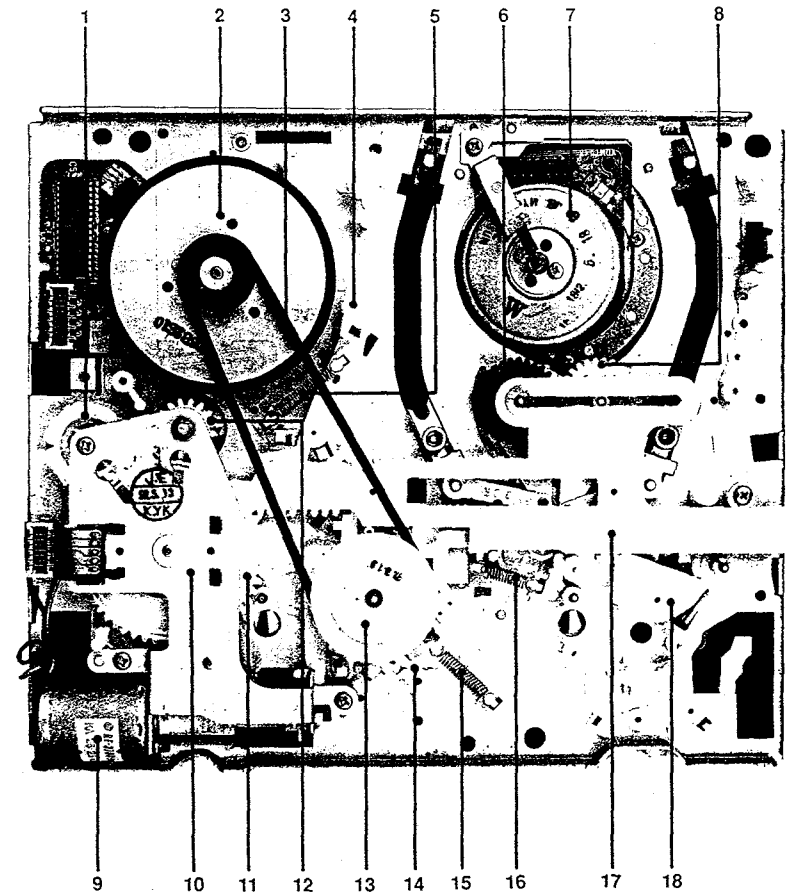


Fig. 2 Deck Parts Locations - Bottom View

1. GEAR EJECT DRIVE
2. MOTOR D/D CAPSTAN
3. BELT CAPSTAN
4. BRAKE D/D CAPSTAN
5. S/P BRAKE CAPSTAN
6. GEAR LOADING "R"
7. CYLINDER MOTOR
8. GEAR LOADING "L"
9. MOTOR LOADING
10. LOADING UNIT ASS'Y

11. GEAR MASTER
12. GEAR RELAY PINCH
13. CLUTCH ASS'Y
14. LEVER SHIFT
15. S/P BRAKE SUB "R"
16. S/P RELEASE BRAKE
17. SLIDE MAIN
18. LEVER TENSION CONTROL

3-3. HOUSING ASS'Y REMOVAL & REASSEMBLY

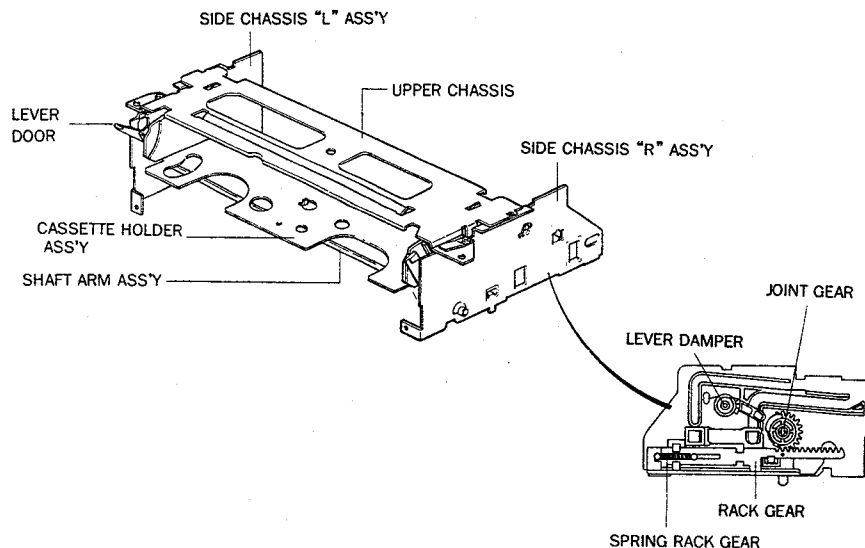


Fig. 3 Housing Ass'y Identification

3-3-1. Housing Ass'y Removal

1. Remove four (4) screws ①, ②.
2. Lift up the housing ass'y in the direction of arrow.

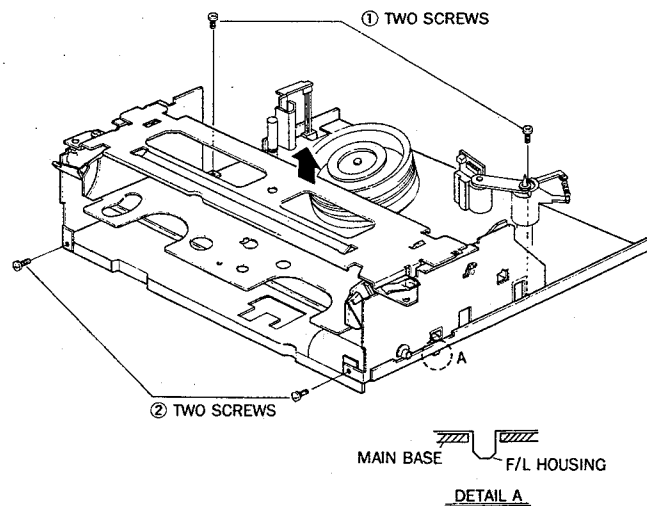


Fig. 4 Housing Ass'y Removal

3-3-2. Cassette Holder Ass'y & Side Chassis "L", "R" Removal

1. Remove two (2) screws ①.
2. Lift up the upper chassis ② and the cassette holder ass'y ③ in the direction of arrow (A).
3. Remove the side chassis 'L', 'R' ④, ⑤ from the shaft arm ass'y in the direction of arrows (B).

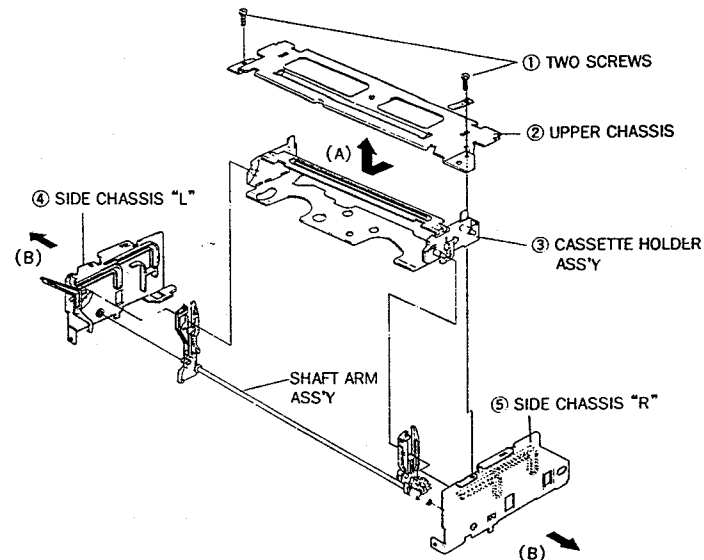


Fig. 5 Cassette Holder Ass'y & Side Chassis "L", "R" Removal

3-3-3. Joint Gear & Rack Gear Removal

1. Pull the rack gear ① in the direction of arrow (A) to the end.
2. Remove one screw ② and then the joint gear ③.
3. Remove the rack gear ① toward arrow (B).

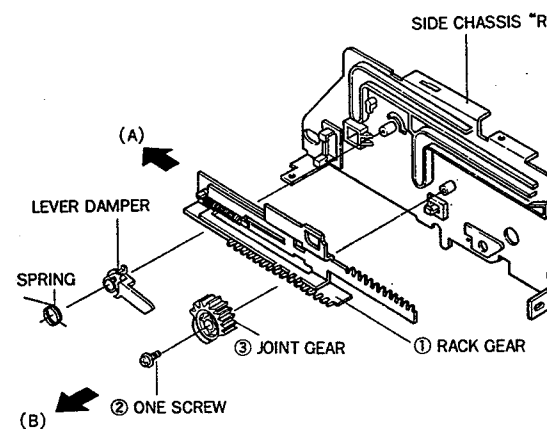


Fig. 6 Joint Gear & Rack Gear Removal

3-3-4. Reinstallation of Rack Gear and Joint Gear

Reinstallation and Timing of Rack Gear and Joint Gear

1. Assemble the rack gear ① to the side chassis "R".
2. Pull the rack gear ① in the direction of arrow to the end.

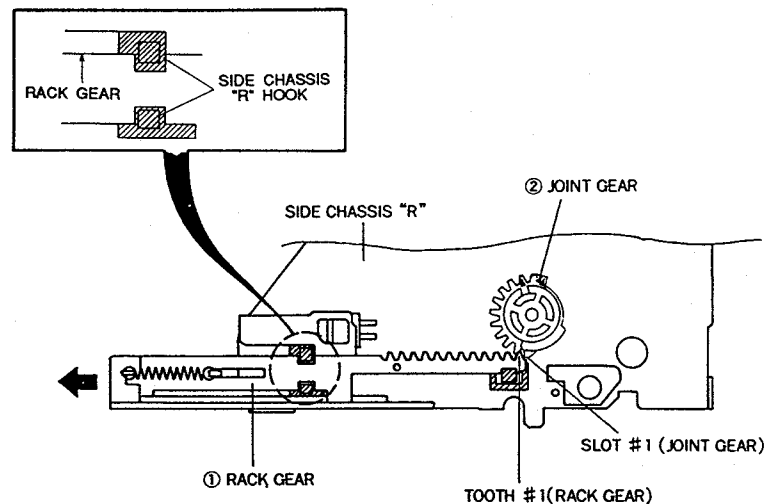


Fig. 7 Reinstallation and Timing of Rack Gear and Joint Gear

Timing Confirmation of Rack Gear and Joint Gear (Eject mode)

1. Push the rack gear ① in the direction of arrow to the end.
2. Make sure that the tooth #12 (arrow mark) of joint gear ② and the Timing Point of rack gear ① are aligned correctly as shown in Fig. 8.

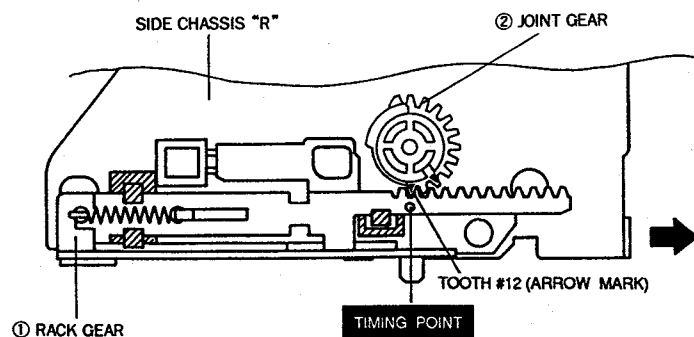


Fig. 8 Timing Confirmation of Rack Gear and Joint Gear

3-3-5. Reassembly of Housing Ass'y

1. After pushing the rack gear in direction of arrow to the end, insert the pin of the arm gear into the hole of side chassis "R".
2. Align the slot #1 of the arm gear ① with the tooth #3 of the joint gear ②. (Refer to timing in Fig. 9)
3. Install the side chassis "L" so that the shaft arm pin goes into the hole in the side chassis "L".
4. Turn the shaft arm to up-position and drop the cassette holder into the arm grooves.
5. Install the upper chassis and secure with two (2) screws.

3-3-6. Reinstallation of Housing Ass'y & Deck Ass'y

Note: Make sure deck is in the eject position.

1. Assemble the housing ass'y while pushing the rack gear forward to align the slot #1 of gear eject drive ② and the tooth #1 of rack gear ①. (Refer to Detail A)

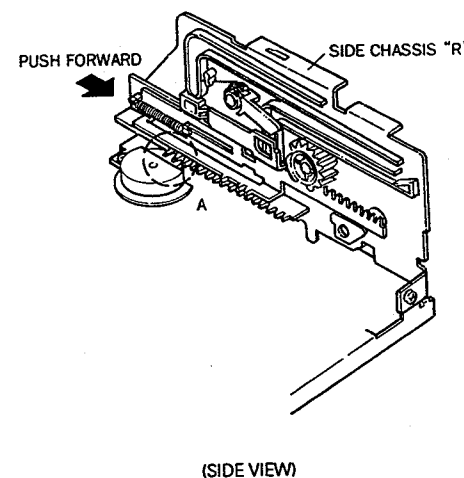
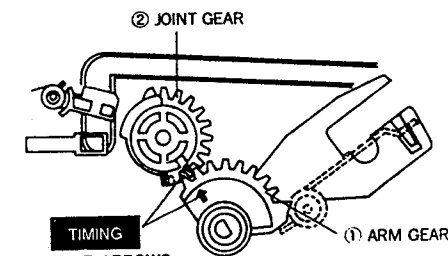


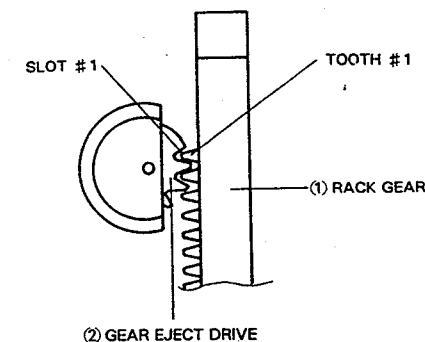
Fig. 10 Reinstallation of Housing Ass'y



ALIGN THE ARROWS

Fig. 9 Reassembly Joint Gear & Arm Gear

2. Install the housing ass'y and then tighten four (4) screws. (See Fig. 4)



DETAIL A

(TOP VIEW)

3-4. CYLINDER ASS'Y REMOVAL & REASSEMBLY

Auto Head Cleaner Ass'y Removal (Optional)

1. Removal one (1) screw ① holding the main base auto head cleaner ass'y ②.

NOTE: Take care not to touch substance, such as oil, grease, etc., on auto head cleaner.

3-4-1. Cylinder Ass'y Removal from Main Deck

1. Release the F.P.C cable ① from Pre-Amp PCB (CN301) and disconnect the lead connector ass'y ② from the cylinder PCB.
2. Remove three (3) screws ③ securing the cylinder and the base cylinder.
3. Lift the cylinder ass'y ④ in the direction of arrow.

CAUTION: Take extreme care when removing the cylinder ass'y. Do not touch the video head tips during servicing.

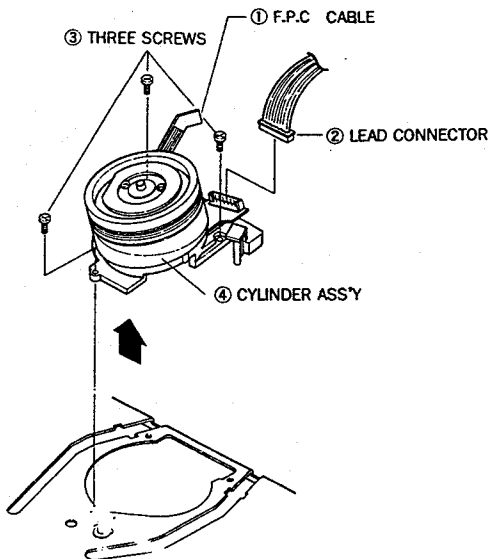
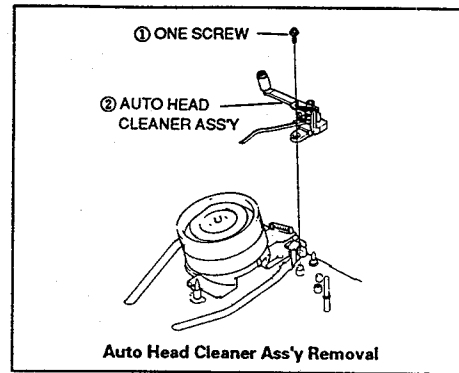


Fig. 11 Cylinder Ass'y Removal



3-4-2. Exploded View of Cylinder Ass'y

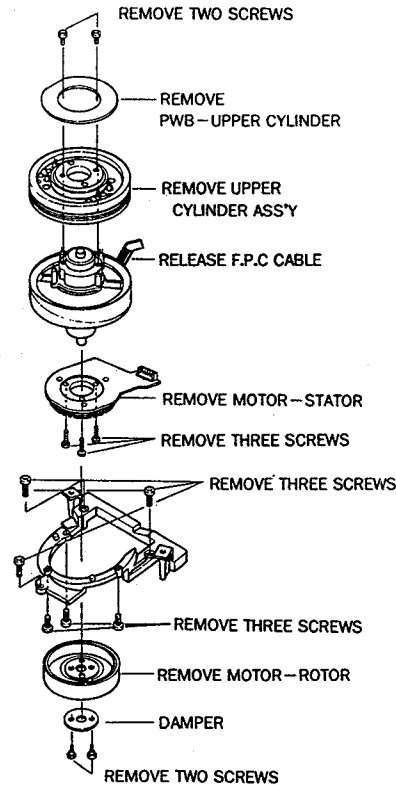


Fig. 12 Exploded View of Cylinder Ass'y

3-4-3. Upper Cylinder Ass'y Removal

1. Remove two (2) screws ① from the upper cylinder ass'y ③.
2. Unsolder the 16 points on the upper cylinder ass'y ③ and remove the upper cylinder ass'y ③ from the cylinder ass'y. (See Fig. 14)

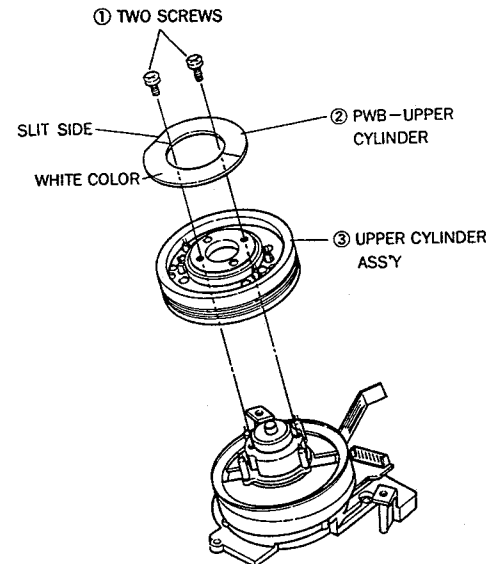


Fig. 13 Upper Cylinder Ass'y Removal

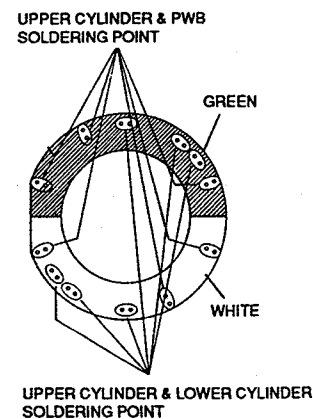


Fig. 14 PWB Upper Cylinder Top View

3-4-4. Lower Cylinder Ass'y Removal

1. Remove three (3) screws ① from the base cylinder ②.
2. Lift up the lower cylinder ass'y ③ from the base cylinder ②.

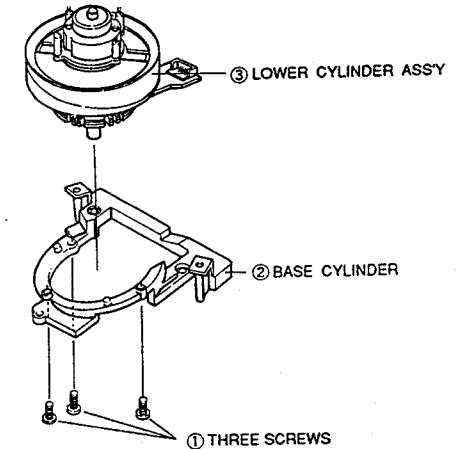


Fig. 15 Lower Cylinder Ass'y Removal

3-4-5. Cylinder Motor Removal

1. Remove three (3) screws ① from the base cylinder ②.
2. Remove two (2) screws ③ from the damper ④, then remove the damper ④ and the motor-rotor ⑤.
3. Remove three (3) screws ⑥ from the motor-stator ⑦ and take it out.

Note: Mark rotor position to insure correct phase orientation upon reinstallation.

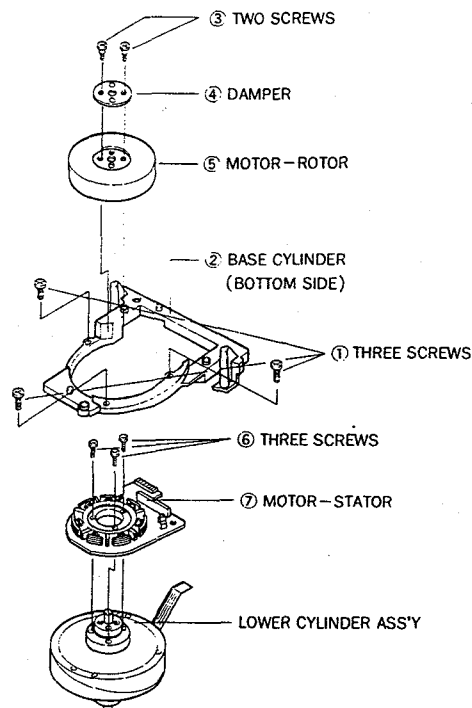


Fig. 16 Cylinder Motor Removal

3-4-6. Assembly of Lower Cylinder

1. Reinstall the motor-stator and secure with three (3) screws. (Refer to Fig. 16)
2. Reinstall the damper and secure with two (2) screws. (Refer to Fig. 16)

Note: Make sure that the round hole of bush cylinder on lower cylinder and the hole of motor rotor are aligned correctly as shown in Fig. 17.

3. Reinstall the lower cylinder to the base cylinder and secure with three (3) screws.

Note: Align two (2) base cylinder pins before reinstalling.

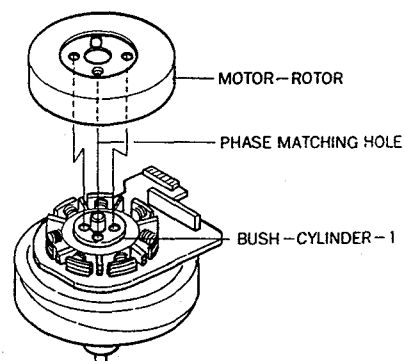


Fig. 17 Bush Cylinder -1 & Motor Rotor Timing

3-4-7. Assembly of Upper Cylinder

1. When installing the upper cylinder, make sure green color (CH1) goes to CH1 head tip position on lower cylinder.
2. Tighten two (2) screws on the upper cylinder. (Refer to Fig. 13)

Note: Timing of the upper cylinder PCB.

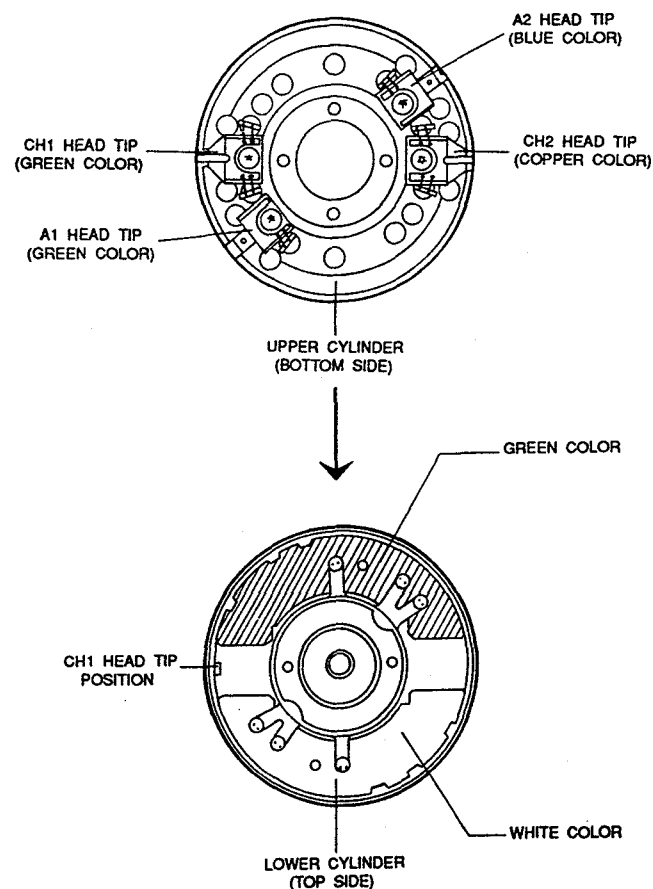


Fig. 18 Upper Cylinder Ass'y Timing

3-4-8. Assembly of Cylinder Ass'y

1. Reinstall cylinder ass'y on the main deck.
2. Tighten three (3) screws securing the base cylinder and the main deck.
3. Reconnect F.P.C cable to the Pre-Amp PCB and the lead connector ass'y to the bottom cylinder PCB.

3-5. REEL DISK ASS'Y REMOVAL

3-5-1. Brake Sub "L" Removal

1. Remove the spring brake sub "L" ①.
2. Lift up the brake sub "L" ② while pushing the clip brake sub "L" ③ in the direction of arrow.

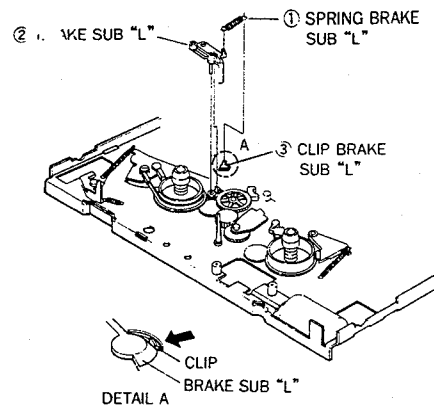


Fig. 19 Brake Sub "L" Removal

3-5-2. Gear Relay S2 & S1 Removal

1. Remove the washer slits ①.
2. Lift up the gear relay S2 ② and S1 ③.

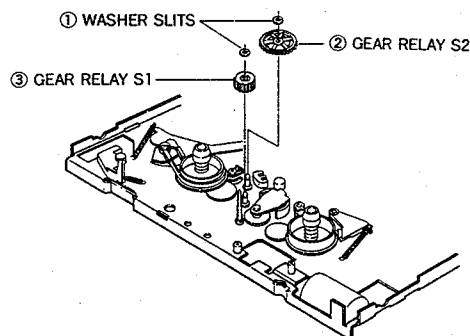


Fig. 20 Gear Relay S2 & S1 Removal

3-5-3. Full Arm Tension Ass'y Removal

1. Take off the spring tension ①.
2. Push the pin arm tension ② releasing clip in the direction of arrow (Bottom View).
3. Lift up the full arm tension ass'y ③.

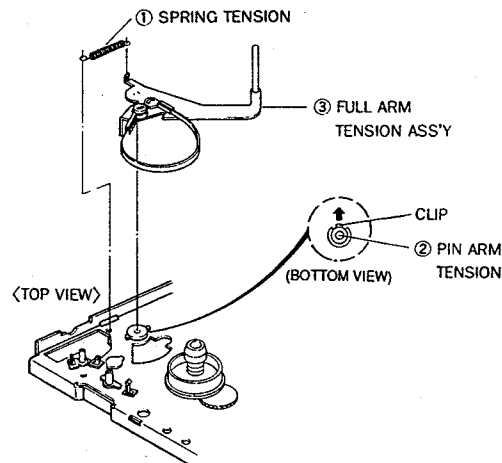


Fig. 21 Full Arm Tension Ass'y Removal

3-5-4. Reel Disk "L" Ass'y & Gear Relay S3 Removal

1. Remove the washer slit (A) ①.
2. Lift up the reel disk "L" ass'y ② and the washer plain ③.
3. Remove the washer slit (B) ④.
4. Lift up the gear relay S3 ⑤.

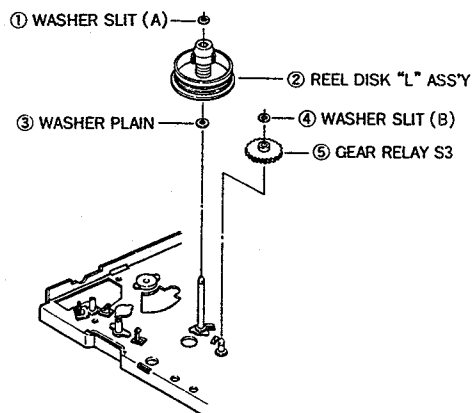


Fig. 22 Reel Disk "L" Ass'y & Gear Relay S3 Removal

3-5-5. Brake Sub "R" Ass'y Removal

1. Remove the spring brake sub "R" ①.
2. Lift up the brake sub "R" ass'y ② while pushing the clip brake sub "R" ③ in the direction of arrow.

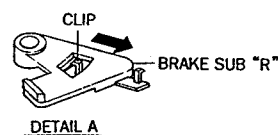
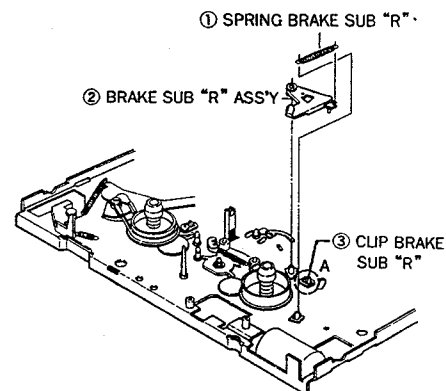


Fig. 23 Brake Sub "R" Ass'y Removal

3-5-6. Brake Main "L" & "R" Ass'y Removal (Fig. 24)

1. Remove the spring brake main ①.
2. Lift up the brake main "L" ass'y ② while pushing the clip in the direction of arrow (A). (Detail A)
3. Lift up the brake main "R" ass'y ③ while pushing the clip in the direction of arrow (B). (Detail B)

3-5-7. Reel Disk "R" Ass'y & Gear Relay "T" Removal (Fig. 25)

1. Remove the washer slit (A) ①.
2. Lift up the reel disk "R" ass'y ②.
3. Lift up the washer plain ③.
4. Remove the washer slit (B) ④.
5. Lift up the Gear Relay "T" ⑤.

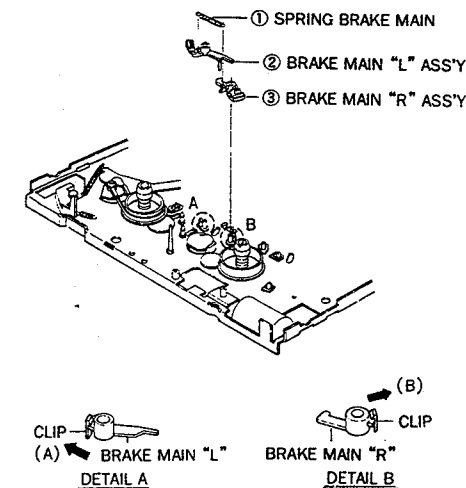


Fig. 24 Brake Main "L" & "R" Ass'y Removal

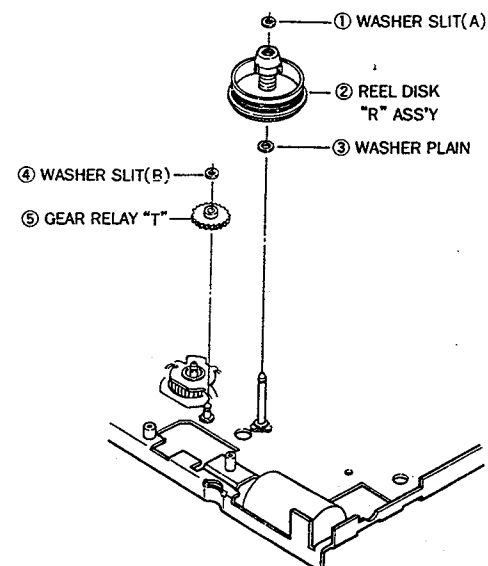


Fig. 25 Reel Disk "R" Ass'y & Gear Relay "T" Removal

3-5-8. Idler Sub Ass'y Removal

1. Remove the washer slit ①.
2. Lift up the idler sub ass'y ②.

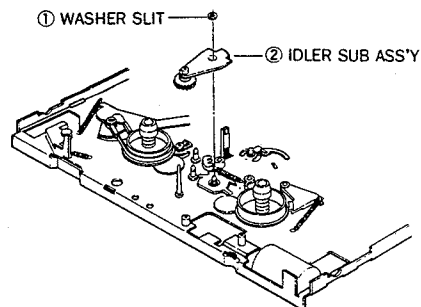


Fig. 26 Idler Sub Ass'y Removal

3-5-9. Lever REC S/W Removal

1. Remove the spring record S/W ①.
2. Lift up the lever record S/W ② while pushing the clip in the direction of arrow.

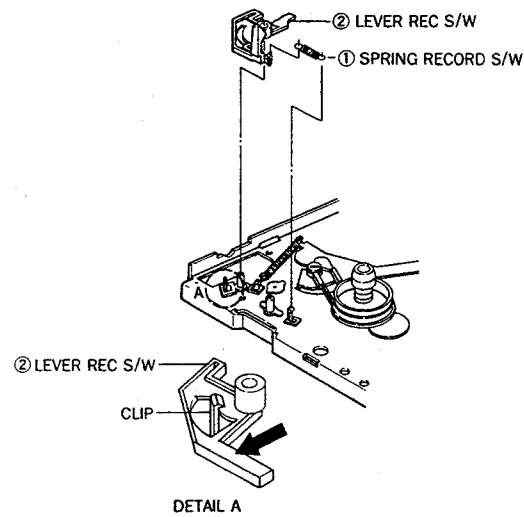


Fig. 27 Lever REC S/W Removal

3-6. LOADING & CAPSTAN MOTOR ASS'Y REMOVAL & REASSEMBLY

3-6-1. Belt Capstan Removal

1. Remove the belt capstan ①.

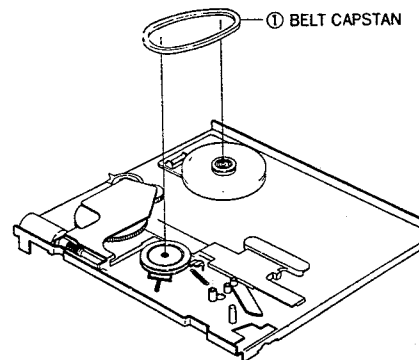


Fig. 28 Belt Capstan Removal

3-6-2. Motor D/D Capstan Removal

1. Remove three (3) screws ①. (Top View)
2. Lift up the motor D/D capstan ②. (Bottom View)

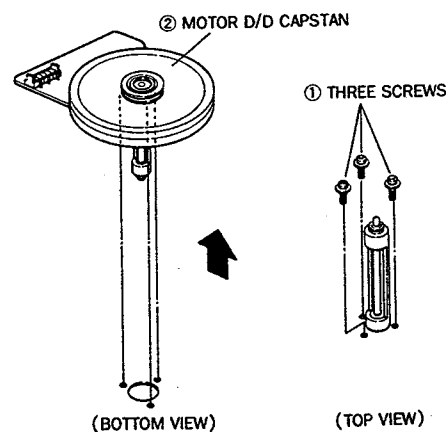


Fig. 29 Motor D/D Capstan Removal

3-6-3. Clutch Ass'y Removal

1. Remove the washer slit ①.
2. Lift up the clutch ass'y ②.
3. Remove the washer plain ③.

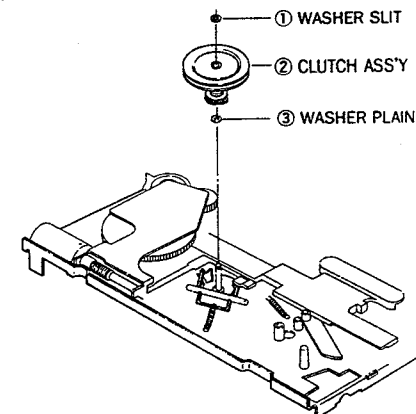


Fig. 30 Clutch Ass'y Removal

3-6-4. L/D Unit Ass'y & Gear Eject Drive Removal

1. Remove three (3) screws ① holding the loading unit ass'y ②.
2. Lift up the loading unit ass'y ②.
3. Lift up the gear eject drive ③.

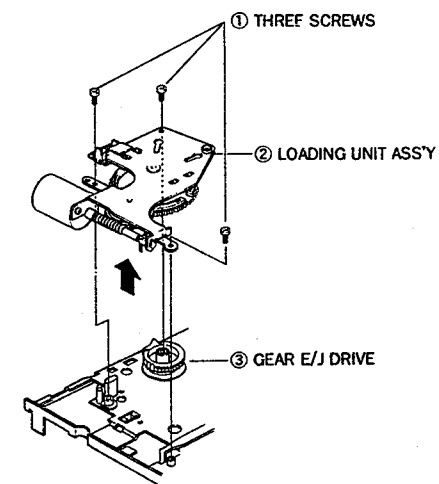


Fig. 31 L/D Unit Ass'y & Gear Eject Drive Removal

3-6-5. Slide Main Removal

1. Remove the screw ① and washer slit ②.
2. Release the clip ③ holding the slide main ④ and then lift up the slide main ④.

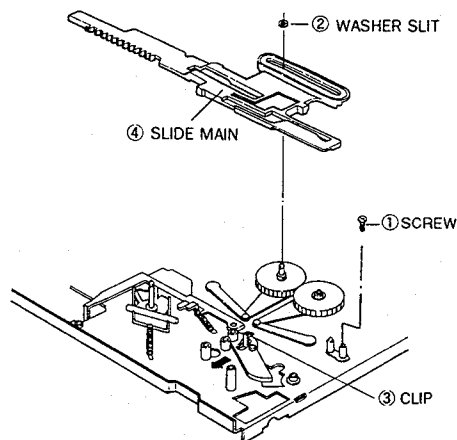


Fig. 32 Slide Main Removal

3-6-6. Brake D/D Capstan Ass'y Removal

1. Remove the spring brake capstan ①.
2. Turn the brake D/D capstan ass'y ② clockwise completely and then lift it up.

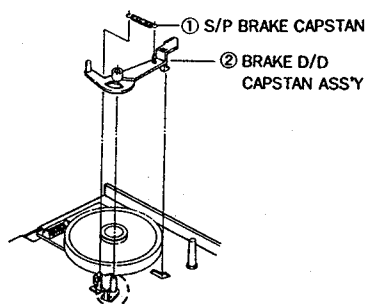
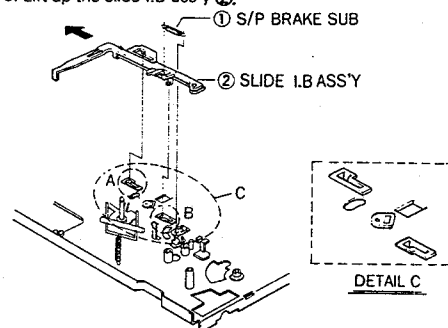


Fig. 33 Brake D/D Capstan Ass'y Removal

3-6-7. Slide I.B Ass'y Removal

1. Remove the spring brake sub ①.
2. While pushing the slide I.B ass'y ② to the end of the slot in the direction of arrow.
3. Lift up the slide I.B ass'y ②.



Note: These two slots are the reason why you must push I.B ass'y in the direction of arrow.

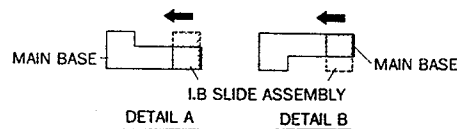


Fig. 34 Slide I.B Ass'y Removal

3-6-8. Lever Shift Removal

1. Remove the spring lever shift ①.
2. Lift up the lever shift ②.

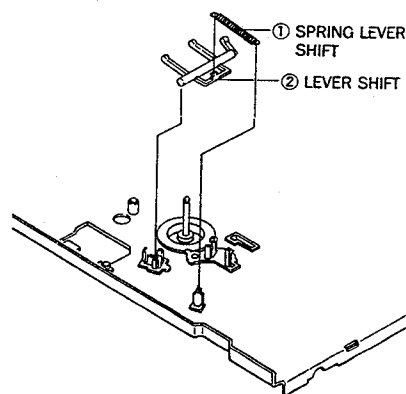


Fig. 35 Lever Shift Removal

3-6-9. Lever Tension Control Removal

1. Lift up the lever tension control ①.

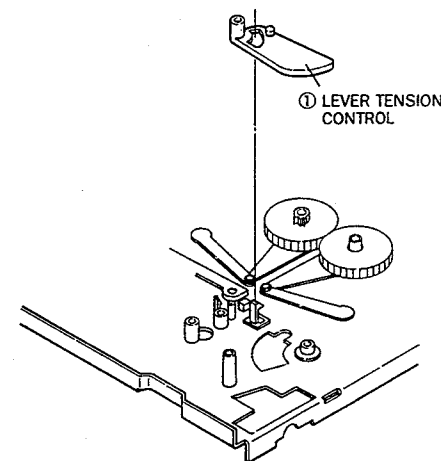


Fig. 36 Lever Tension Control Removal

3-6-10. Gear Loading "L", "R" Ass'y Removal

1. Lift up the gear loading "R" ass'y ①.
2. Lift up the gear loading "L" ass'y ③ while pushing the gear loading "L" clip ② in the direction of arrow.

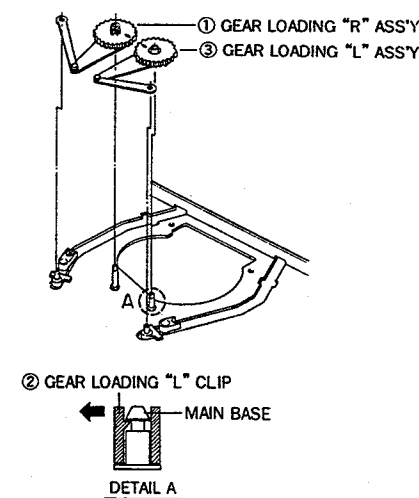


Fig. 37 Gear Loading "L", "R" Ass'y Removal

3-6-11. Review Arm Ass'y Removal

1. Remove the washer slit ①.
2. Lift up the full review arm ass'y ②.

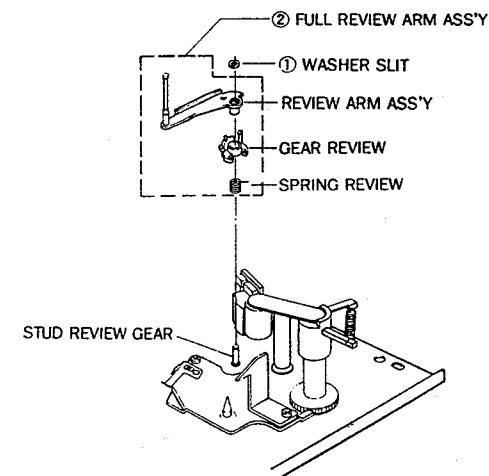


Fig. 38 Review Arm Ass'y Removal

3-6-12. Drive Cam Pinch Ass'y Removal

1. Remove two (2) screws ①.
2. Lift up the drive cam pinch ass'y ②.

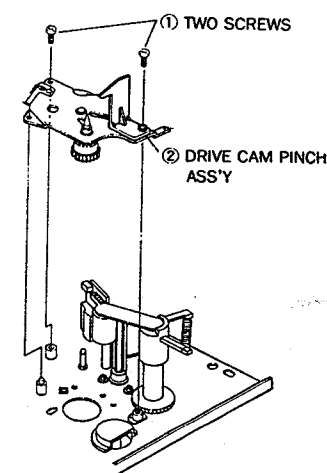


Fig. 39 Drive Cam Pinch Ass'y Removal

3-6-13. Pinch Roller Unit & Gear Escalator Removal

1. Remove the spring pinch roller ①.
2. Remove the washer slit ②.
3. Lift up the arm pinch ass'y ③.
4. Lift up the holder escalator ④ and the gear escalator ⑤.

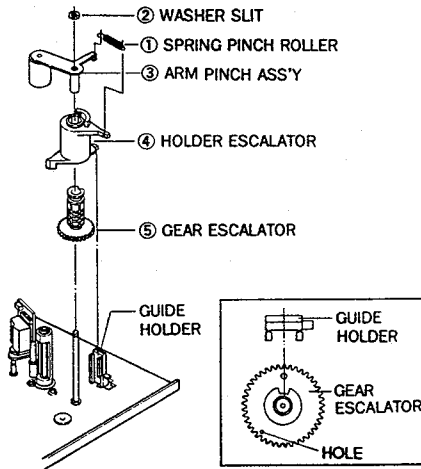


Fig. 40 Pinch Roller Unit & Gear Escalator Removal

3-6-14. Reassembly of Unit Drive Pinch Ass'y and Gear Escalator

1. Install the gear escalator on the shaft and align the holes. (Refer to timing in Fig. 40)
2. Align the hole of the bracket pinch drive ① with the hole of the gear cam drive ②. (Refer to timing (A) in Fig. 41)
3. Align the hole of the bracket pinch drive ① with the hole of the gear cam pinch ③. (Refer to timing (B) in Fig. 41)
4. Align the protrusion on the side of the gear relay pinch ④ with the hole of the gear cam drive ②. (Refer to timing (C) in Fig. 41)
5. While installing drive pinch ass'y align the arrow mark of the gear cam pinch ③ with the hole of the gear escalator ⑤. (Refer to timing (D) in Fig. 42)
6. When aligning the timing (D), be sure to line up the timing (A), (B), (C).
7. Install the two (2) screws.

Bottom View of Drive Pinch Ass'y

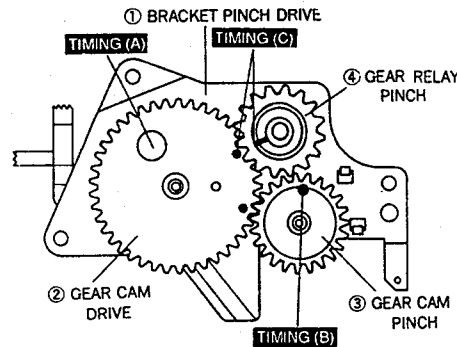


Fig. 41 Timing of Gear Cam Drive, Gear Cam Pinch & Gear Relay Pinch

Top View of Drive Pinch Ass'y

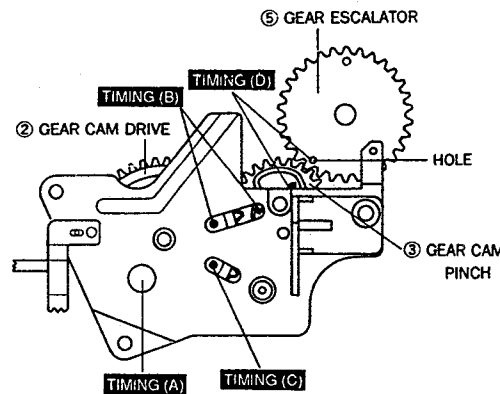


Fig. 42 Reassembly of Drive Pinch Ass'y & Gear Escalator

3-6-15. Reassembly of Full Review Arm Ass'y

1. Assemble the full review arm ass'y ① so that the gear review ② is touching the review stopper ③ as shown in Fig. 43.
2. Install the washer slit.

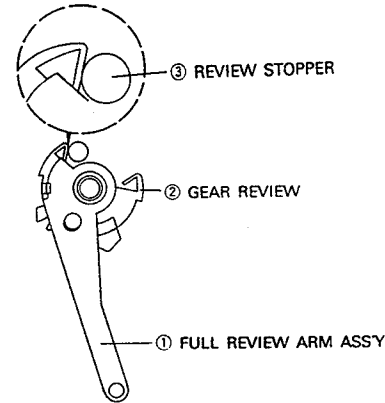


Fig. 43 Reassembly and Timing of Full Review Arm Ass'y

3-6-17. Timing of Slide Main

1. Install the brake D/D capstan, lever tension control and slide I.B ass'y.
2. Install the slide main between brake D/D capstan and brake main "L", while pulling the brake D/D capstan and the brake main "L" toward arrow (A) and (B) respectively.
3. At the same time, make sure the brake sub "L" and the supply pole base is located as shown in the Fig. 45.
4. Install the one screw.

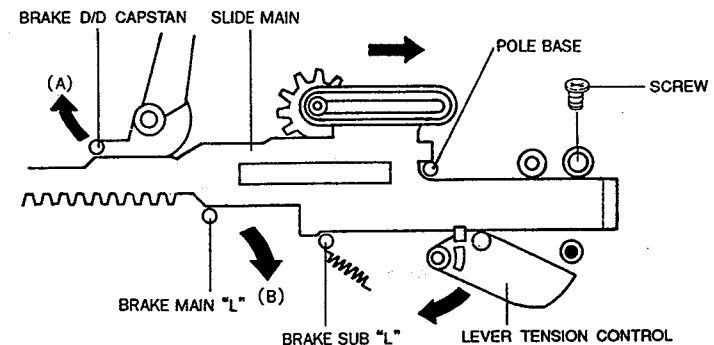


Fig. 45 Timing of Slide Main

3-6-16. Reassembly of Gear Loading "L", "R" Ass'y

1. Reassemble the gear loading L/R ass'y in the eject mode while aligning the timing mark. (Refer to Fig. 44)

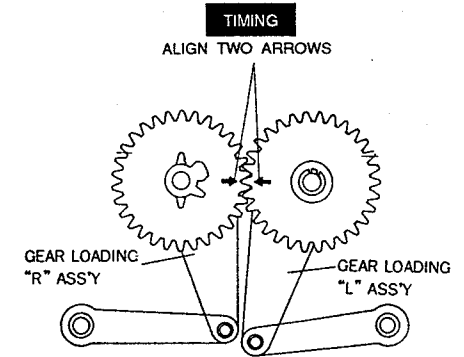


Fig. 44 Reassembly of Gear Loading "L", "R" Ass'y

3-6-18. Reassembly and Timing of Program S/W & Gear Master

1. Align two arrows on the program S/W ①. (Refer to timing (A))
2. After aligning timing (A) completely, install the gear master ② so that the boss on the program S/W ① is inserted into the small hole of gear master ②. (Refer to timing (B))
3. Install the gear worm wheel and then washer slit.

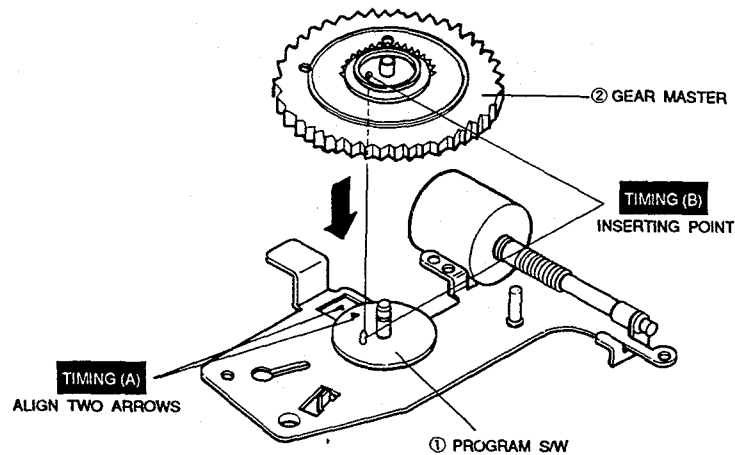


Fig. 46 Reassembly and Timing of Program S/W & Gear Master

3-6-19. Timing of Gear Master & Gear Eject Drive

1. Install the gear eject drive.
2. Install the loading unit and align the slot #2 of the gear eject drive ① with the hole of the gear master ②. (Refer to timing (A) in Fig. 47)
3. At this time, make sure that the timing (B) of the gear relay pinch ③ and the gear master ② are aligned correctly.

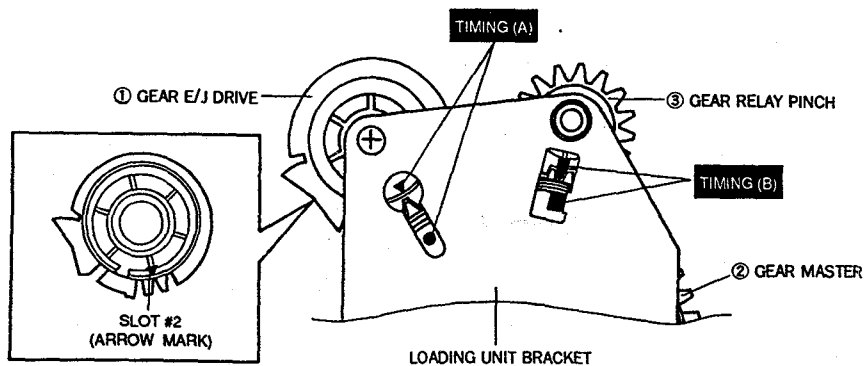


Fig. 47 Timing of Gear Master & Gear Eject Drive

3-7. TAPE TRANSPORT ASS'Y REMOVAL

3-7-1. Pole Base "L", "R" Ass'y Removal

1. Remove cylinder ass'y. (Refer to 2-5-1)
2. Move the pole base "L", "R" ass'y ①, ② to the end of slot. (Fully loaded position)
3. Lift up the pole base "L", "R" ass'y ①, ②.

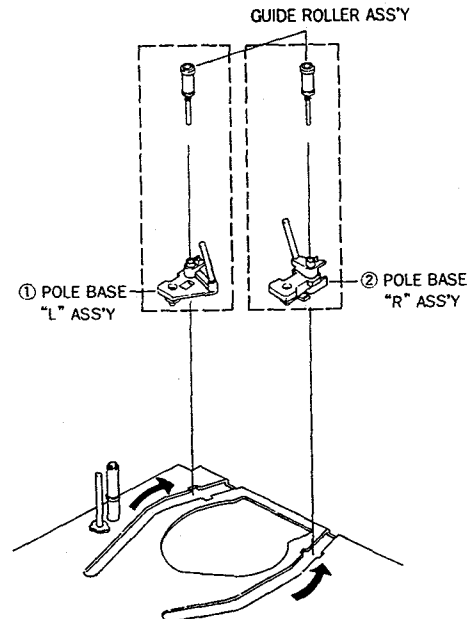


Fig. 48 Pole Base "L", "R" Ass'y Removal

3-7-2. Head Magnetic F/E Removal (Fig. 49)

1. Remove one (1) screw ① holding the full erase head ②.
2. Unsolder the F/E head P.C.B. ② from the head magnetic F/E ③.
3. Lift up the head magnetic F/E ③.

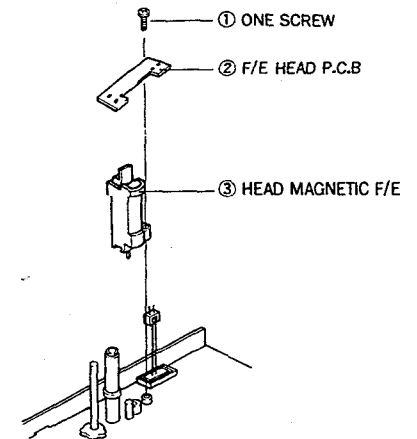


Fig. 49 Head Magnetic F/E Removal

3-7-3. A/C Head Ass'y Removal (Fig. 50)

1. Remove two (2) screws ①.
2. Lift up A/C head ass'y ②.
3. Reinstall in reverse order.

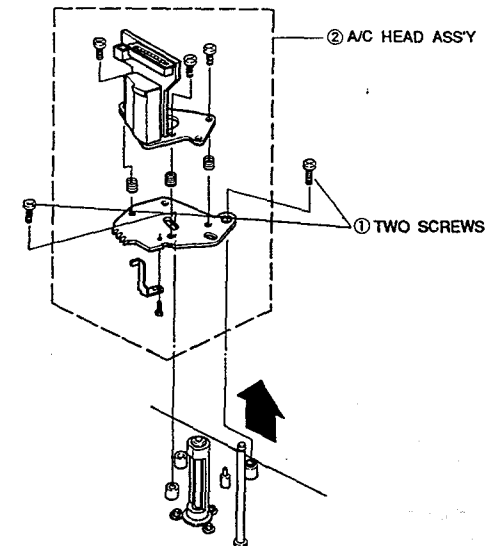
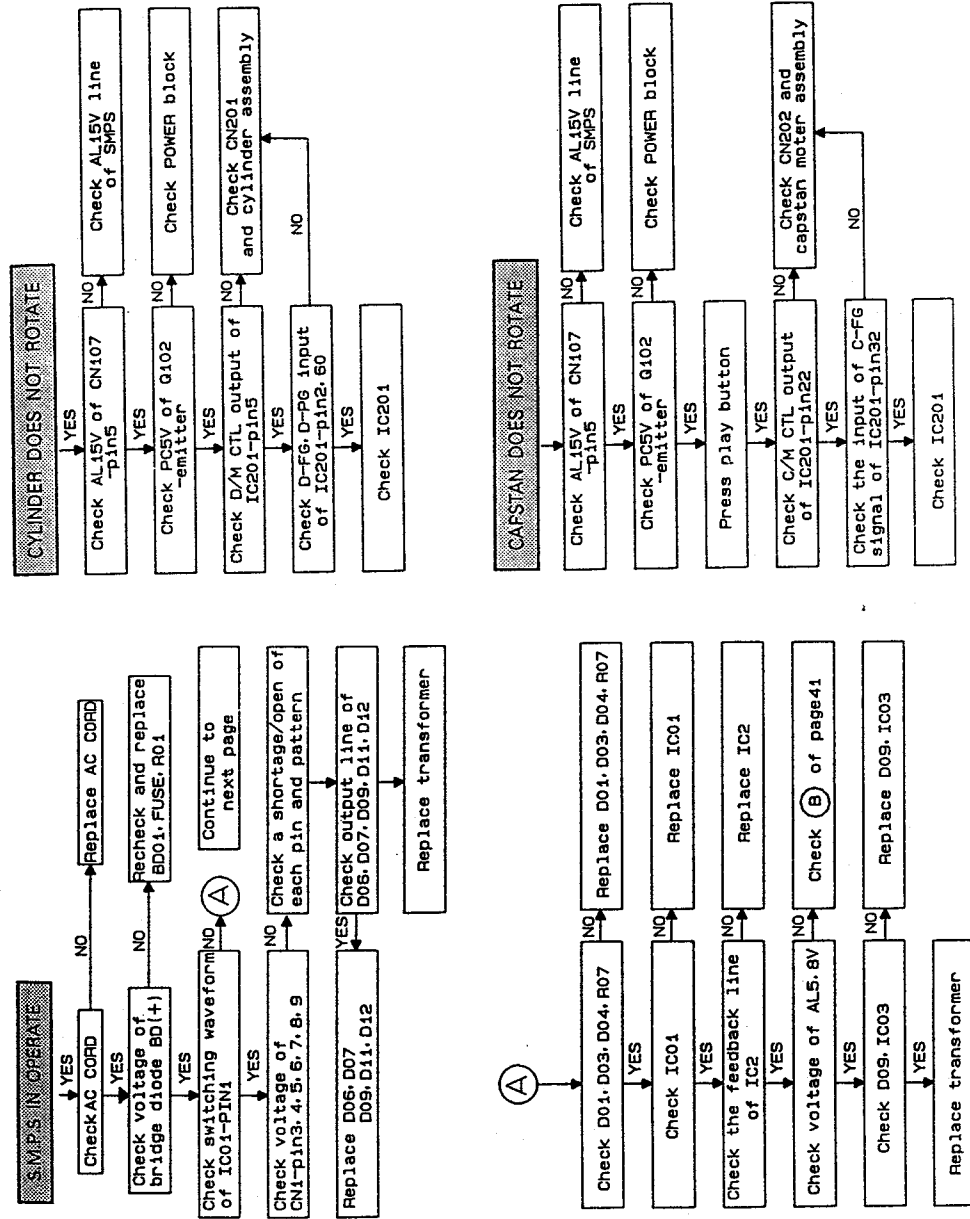
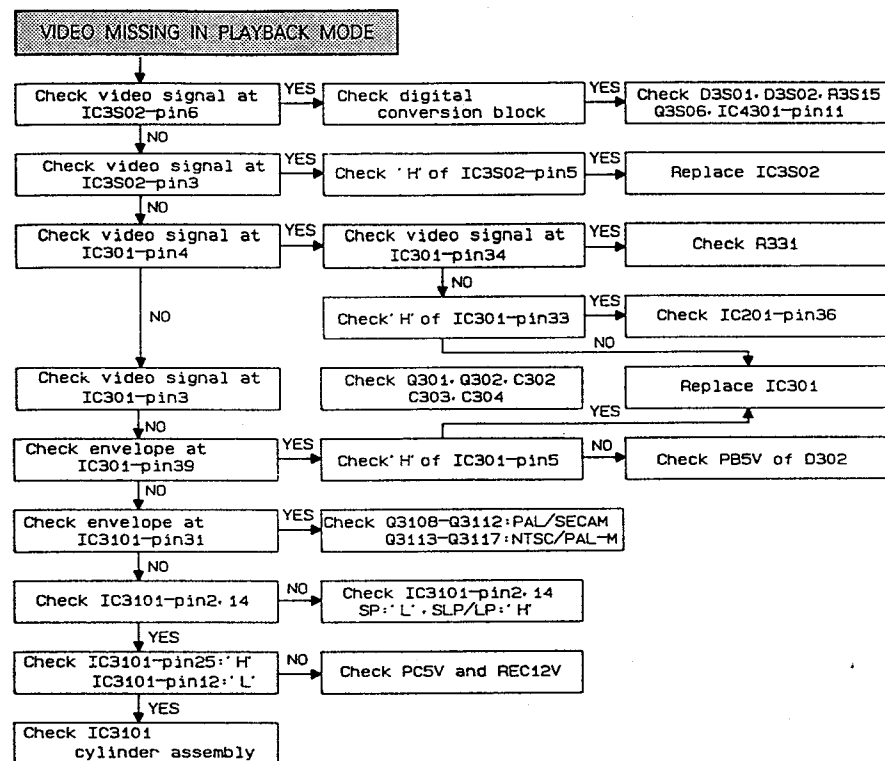
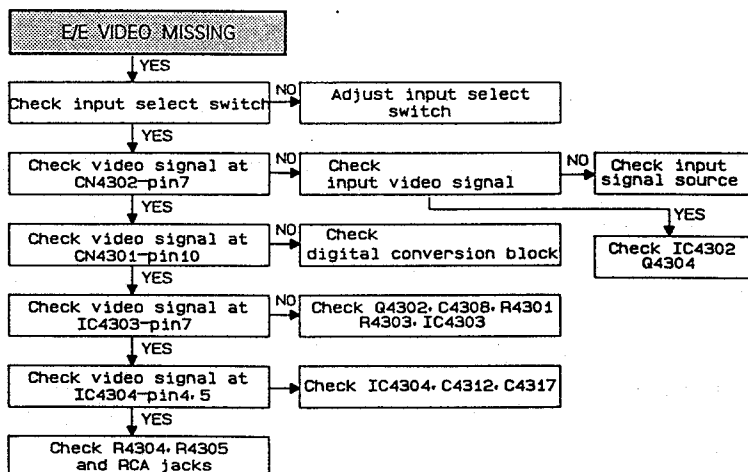
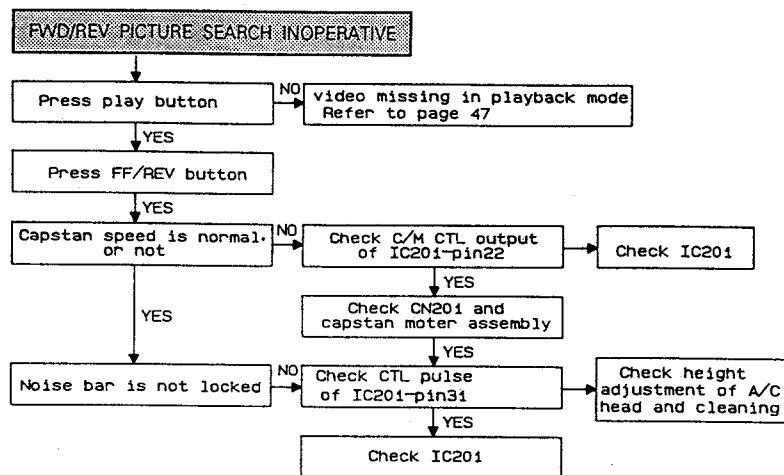


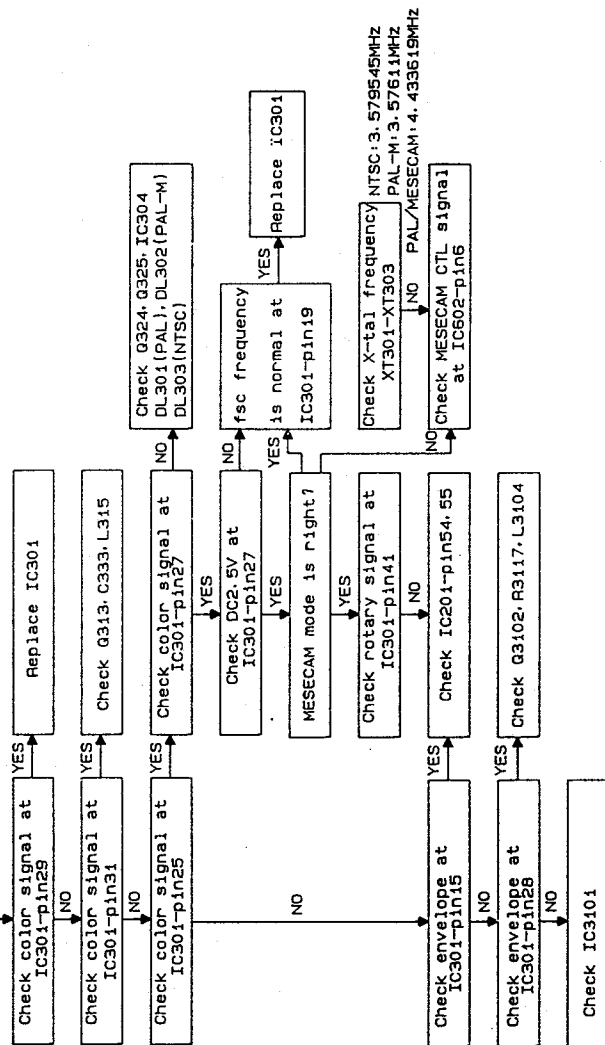
Fig. 50 A/C Head Ass'y Removal

4. TROUBLESHOOTING

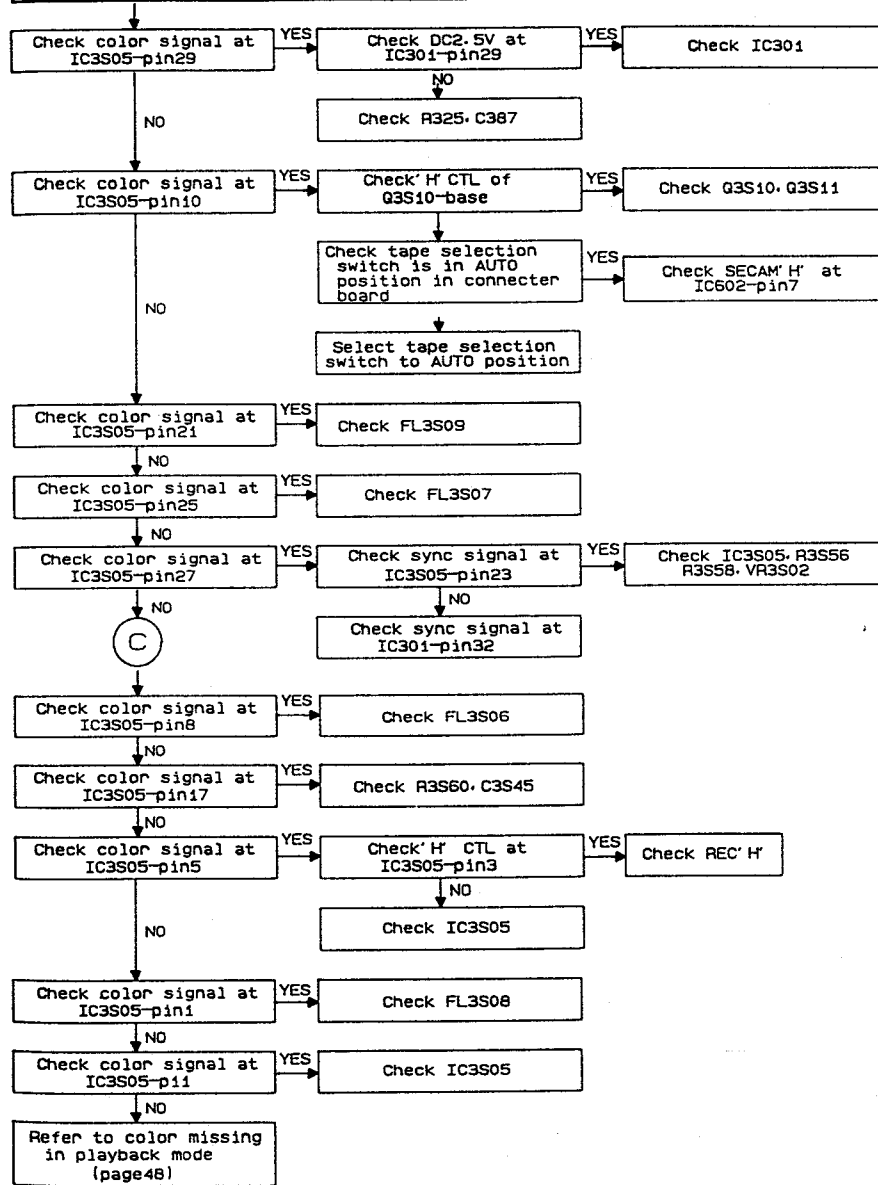


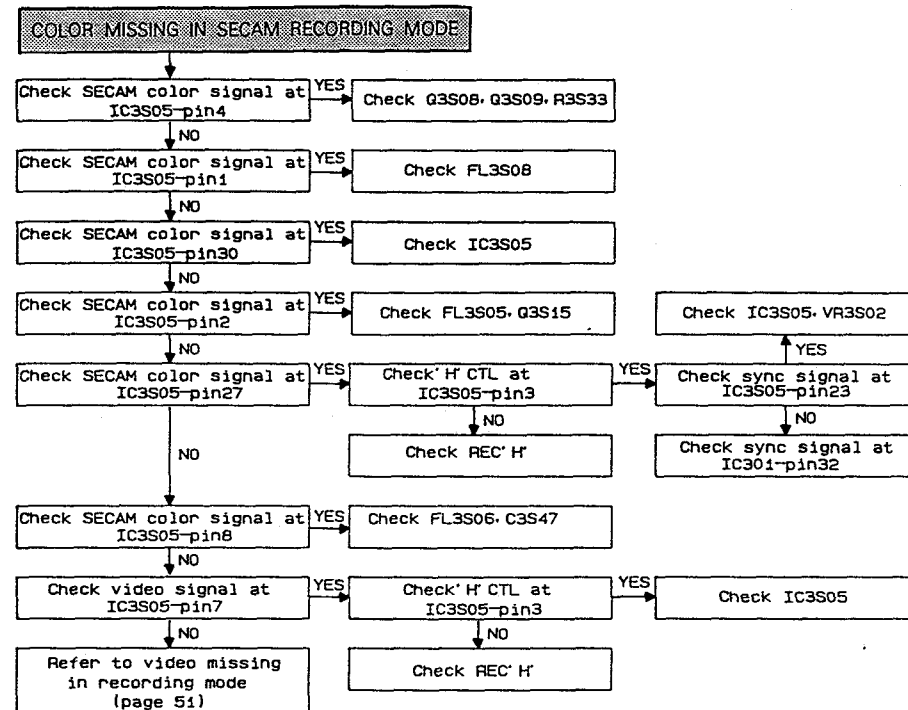
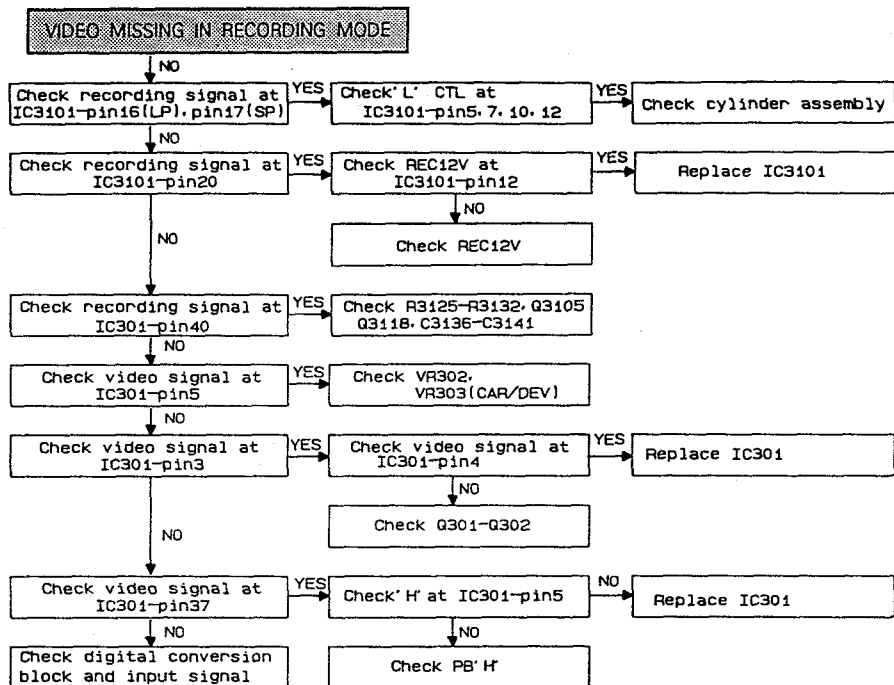


COLOR MISSING IN PLAYBACK MODE (NTSC, PAL, PAL-MN, MESECAM)

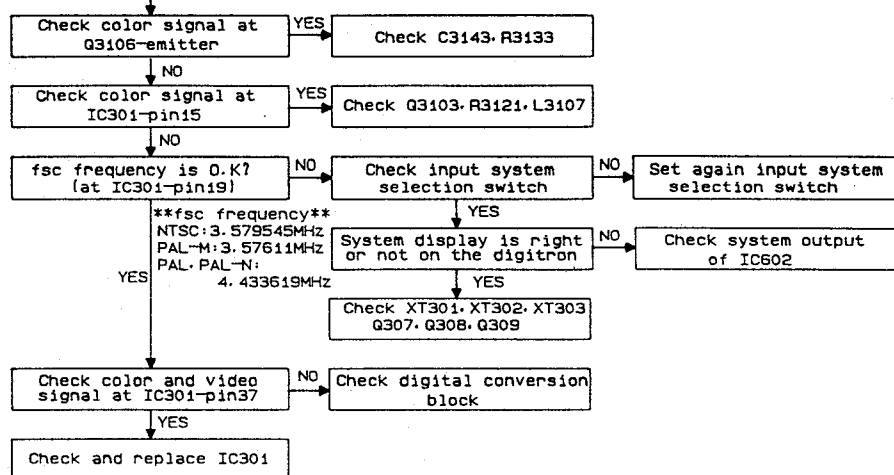


SECAM COLOR MISSING IN PLAYBACK MODE

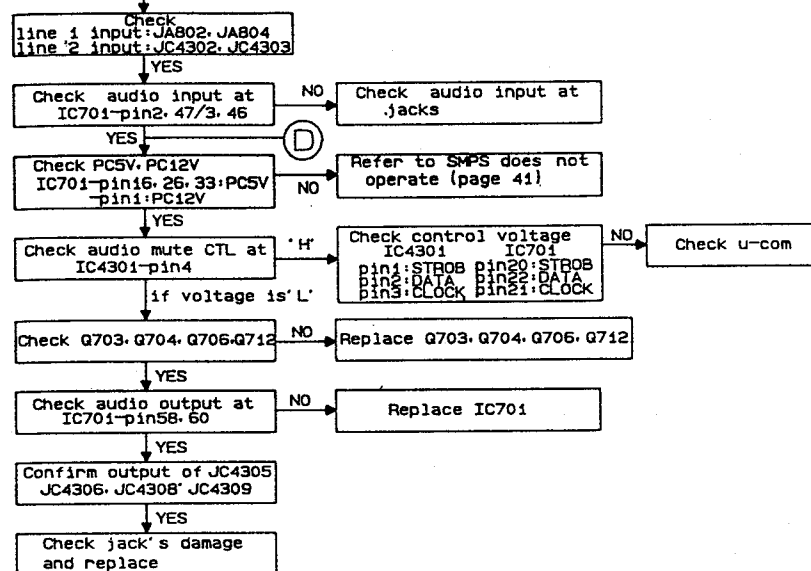




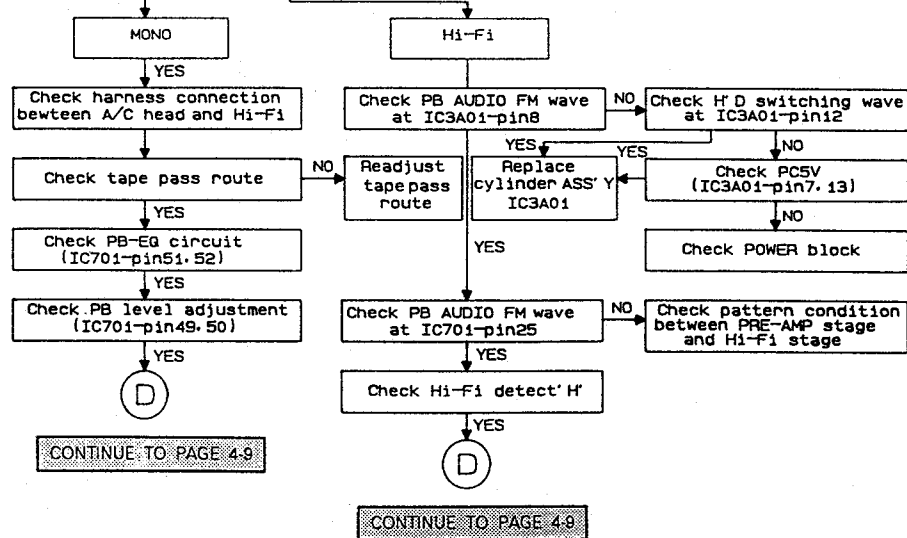
COLOR MISSING IN RECORDING MODE (NTSC, PAL, PAL-M/N, MESECAM)



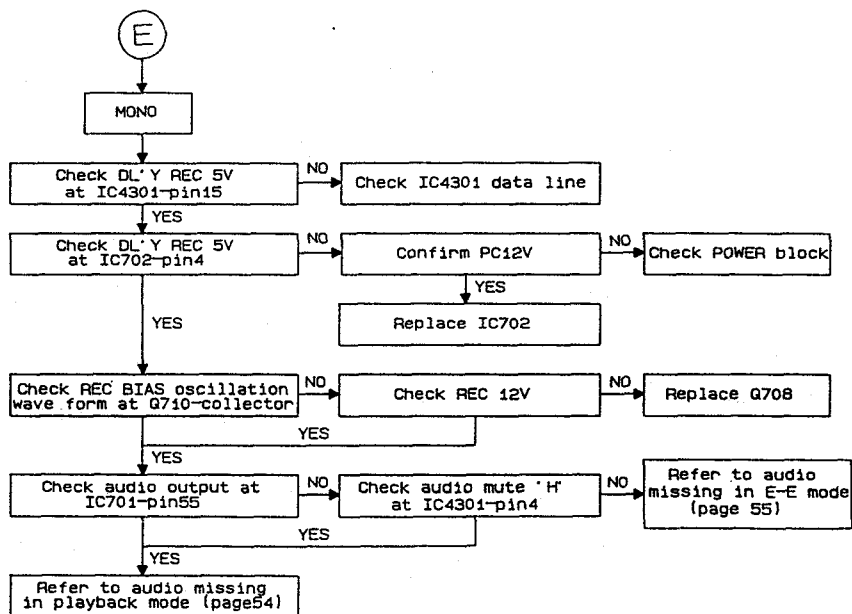
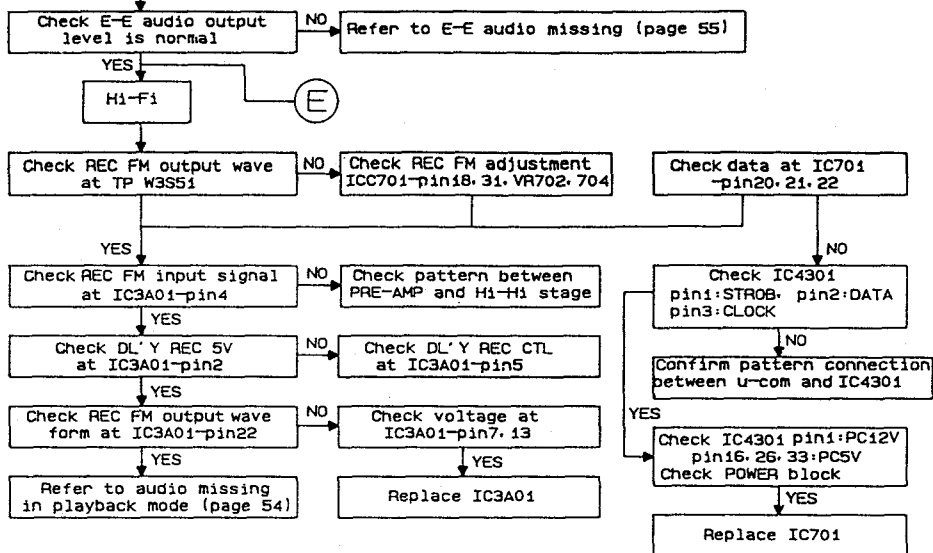
AUDIO MISSING IN E/E MODE



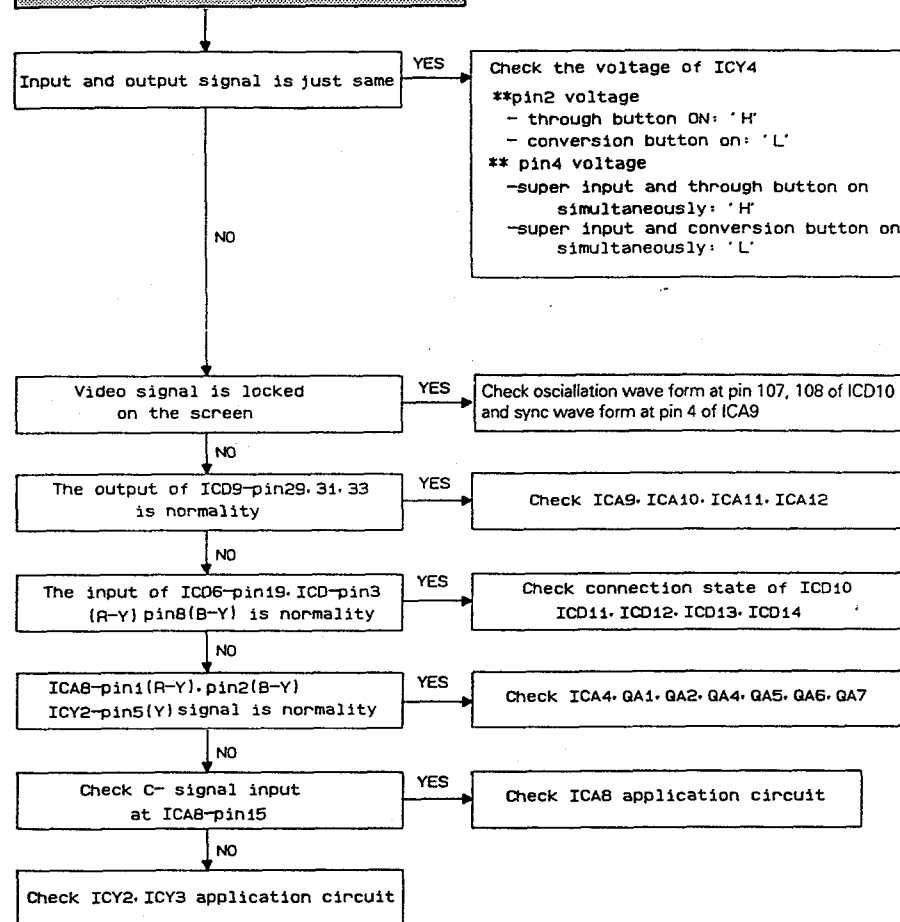
AUDIO MISSING IN PLAYBACK MODE

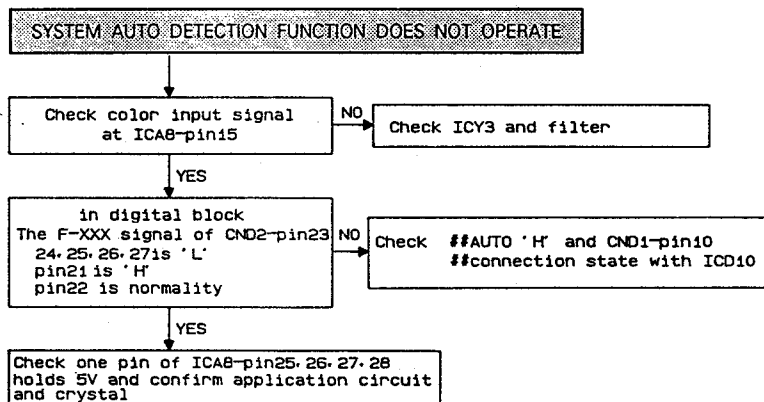
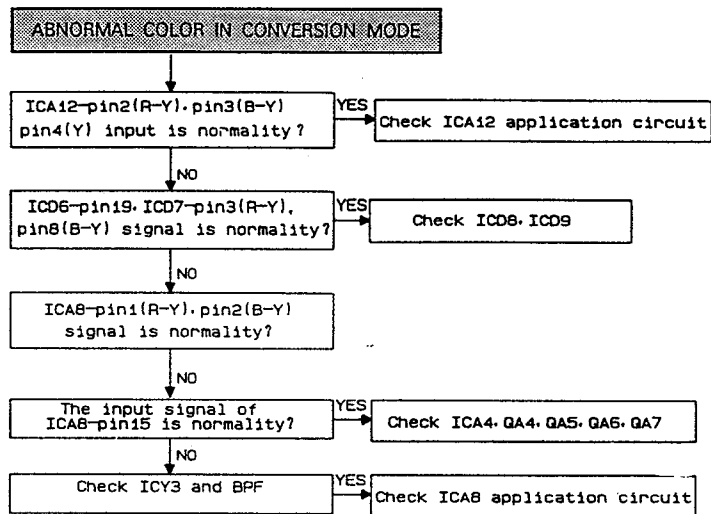


AUDIO MISSING IN PLAYBACK MODE AFTER RECORDING



CONVERSION FUNCTION DOES NOT OPERATE





5. ELECTRICAL PARTS LIST

Loca.No	Part No	Description & Specification	Remark
801		REGULATOR ASSY	
	69098-130-802	SV-300W/SEA	
	69098-030-800	SV-300W/SEJ	
	69098-230-801	SV-300W/SEUK, SEG, SE1, SEF, TSE, AND, ZAMA	
B001	B4104-0093	DIODE-RECT:D2SB460 600V 1.5A BRIDGE 4004	⚠
C01	B1102-0266	C-FILM;COS 92 2 275V T 104-N -25/85 ARCOOTRONICS	
C02	B1102-0266	C-FILM;COS 92 2 275V T 104-N -25/85 ARCOOTRONICS	
C03	A1100-0450	C-CERAMIC;CK 45 B 400V 222-K CK45B500V222K	
C04	A1100-0450	C-CERAMIC;CK 45 B 400V 222-K CK45B500V222K	
C05	A1104-0627	C-ELEC;CE 04 W 400V 101-M KMG -25/105	
C06	A1100-0841	C-CERAMIC;CK 45 Y5R 2KV T 471-K	
C07	A1104-0364	C-ELEC;CE 04 C 25V 101-M	
C08	A1104-0364	C-ELEC;CE 04 C 25V 101-M	
C09	61507-121-360	C-POLYESTER;CO921M TAPG 50V 152-K	
C10	A1100-0450	C-CERAMIC;CK 45 B 400V 222-K CK45B500V222K	
C11	A1104-0378	C-ELEC;CE 04 F 35V T 331-M STX/KME -40/105	
C12	A1104-0290	C-ELEC;CE 04 C 25V 102-M 10X20(105)	
C13	A1104-0373	C-ELEC;CE 04 F 25V T 331-M STX/KME -40/105	
C14	A1104-0289	C-ELEC;CE 04 C 10V 222-M 10X20(105)	
C15	A1104-0289	C-ELEC;CE 04 C 10V 222-M 10X20(105)	
C16	A1104-0203	C-ELEC;CE 04 D 50V 470-M STX/KME 47UF -55/105	
C17	A1104-0383	C-ELEC;CE 04 F 10V T 101-M STX/KME -40/105	
C18	A1100-0450	C-CERAMIC;CK 45 B 400V 222-K CK45B500V222K	
C19	B1102-0125	C-FILM;CO 982 P 50V T 104-J 40/85 ECOVH104J23	
C20	61507-121-470	C-POLYESTER;CO921M TAPG 50V 103-K	
QN1	A6010-0407	CONNECTOR-WAFER;28-5085-009-000 BLK	⚠
D01	B4104-0092	DIODE-RECT:D1N60 600V 1A T	
D02	B4102-0047	DIODE-FR;ERA18-04V1 400V 800MA 0.4US T	
D03	B4102-0047	DIODE-FR;ERA18-04V1 400V 800MA 0.4US T	
D04	B4102-0047	DIODE-FR;ERA18-04V1 400V 800MA 0.4US T	
D06	B4102-0029	DIODE-FR;EU02W 400V 1.0A 0.4US T	
D07	B4102-0050	DIODE-FR;D3L20U 200V 2.5A 35NS STICK	
D09	B4112-0021	DIODE-SCHOTTKY;FMB-G14L 40V 5A T SANKEN	
D11	B4102-0029	DIODE-FR;EU02W 400V 1.0A 0.4US T	
D12	B4102-0029	DIODE-FR;EU02W 400V 1.0A 0.4US T	
F01	64709-084-017	FUSE;T2A 250V 51S 5X20MM SJ U/C	
IC01	B4008-1109	IC-S/W REGU;STR-S6707 DIP	
IC02	B4161-0019	PHOTO-COUPLER;PC121FY	
IC03	A4008-0757	IC;KA431Z TO-92 TAPING	
L01	A1151-0023	COIL-LINE FILTER;SHL030 25MH 1.5 STICK	
L02	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
L03	A1130-0077	COIL-CHOKE;10UH-J RA Q80 F150KHZ	
L04	A1130-0077	COIL-CHOKE;10UH-J RA Q80 F150KHZ	
L05	A1130-0077	COIL-CHOKE;10UH-J RA Q80 F150KHZ	
R01	A1014-0011	R-CEMENT;RMC 2 R 287-K	
R02	A1006-0809	R-METAL FILM;FM 1/4 T 333-J SFR25	
R03	A1006-0809	R-METAL FILM;FM 1/4 T 333-J SFR25	
R04	A1006-0809	R-METAL FILM;FM 1/4 T 333-J SFR25	
R05	61045-527-470	R-METAL OXIDE;RS 2 P 470-J	
R06	A1006-0821	R-METAL FILM;FM 1/4 T 7R5-J SFR25	
R07	A1004-0298	R-METAL OXIDE;RS 2 RT R68-J ERK2STR68E	
R08	A1006-0795	R-METAL FILM;FM 1/4 T 101-J SFR25	
R09	A1006-0812	R-METAL FILM;FM 1/4 T 392-J SFR25	
R10	A1006-0796	R-METAL FILM;FM 1/4 T 102-J SFR25	
R11	A1006-0805	R-METAL FILM;FM 1/4 T 222-J SFR25	
R12	A1006-0796	R-METAL FILM;FM 1/4 T 102-J SFR25	
R14	A1006-0814	R-METAL FILM;FM 1/4 T 471-J SFR25	
R15	61048-177-391	R-CARBON;RD 1/8 T 391-J	
R16	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R17	A1006-0592	R-METAL FILM;FM 1/8 T 302-F	
R18	A1006-0423	R-METAL FILM;FM 1/8 T 222-F	

Loca.No	Part No	Description & Specification	Remark
R20	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R21	A1004-0227	R-METAL OXIDE;RS 2 R 101-J EG2SJ101E	
R22	B1002-0013	R-COMPOSITION;PC 1/2 T 185-J EPC12K185V	
T01	A1206-0058	TRANS-SWITCHING;85-264V 5.8-35V DEMO SV-300W	⚠
VA01	A1330-0058	VARIATOR;SVC4710-14A 470V 0.6W 2500A T	
601	69357-302-419	ASSY MAIN;SYS/SER/SEC SV-300W	
POWER PARTS			
C101	61507-339-010	C-POLYESTER;MOX 100V TAPG 473-K	
C102	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C103	61507-121-471	C-POLYESTER;CO921M TAPG 50V 103-J	
C104	61507-121-431	C-POLYESTER;CO921M TAPG 50V 472-J	
C105	61507-121-471	C-POLYESTER;CO921M TAPG 50V 103-J	
C106	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C107	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C108	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C109	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C110	61637-508-470	C-ELEC;CEAP 50V 47M SG(6.3X11)	
C111	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C114	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C115	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C116	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C117	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C129	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C130	61637-505-101	C-ELEC;CEAP 25V 100M SG(6.3X11)	
CN101	63053-204-116	LEAD CONNECTOR-ASSY;1429 #26 5295-51004 4P 160MM	
CN105	B6010-0436	CONNECTOR-WAFER;TMC-ED2X-A1 BLK STICK	
CN107	A6010-0406	CONNECTOR-WAFER;18-5085-009-000 BLK	
D101	A4114-0009	DICOD-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
D102	A4114-0009	DICOD-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
D103	B4104-0046	DICOD-RECT;1N4002GP 100V 1A	
IC101	B4008-1011	IC-VOLT REGU;POL2RF11 SIP 4-LEAD	
L101	62427-813-101	COIL-PEAKING;EL0607PA 100uH-K	
OSC101	62429-014-110	COIL BIAS OSC;B02 70KHZ W(TOKO) VX1850	
Q101	62137-702-020	TRANSISTOR;KSC 1008-Y TAPG	
Q102	62137-302-441	TRANSISTOR;KSC 2328-Y TAPG	
Q103	62137-302-441	TRANSISTOR;KSC 2328-Y TAPG	
Q104	62147-401-835	TRANSISTOR;KSA 928A-Y TAPG	
Q105	62129-101-135	TRANSISTOR;CHIP;KSR1101	
Q106	62147-101-950	TRANSISTOR;KSA 643-Y TAPG	
Q107	62129-301-104	TRANSISTOR;CHIP;KSR 1103(REEL)	
Q108	62147-101-950	TRANSISTOR;KSA 643-Y TAPG	
Q109	62129-301-104	TRANSISTOR;CHIP;KSR 1103(REEL)	
R101	61048-177-223	R-CARBON;RD 1/8 T 223-J	
R102	61048-177-479	R-CARBON;RD 1/8 T 47J	
R103	A1006-0806	R-METAL FILM;FM 1/4 T 271-J SFR25	
R104	A1006-0806	R-METAL FILM;FM 1/4 T 271-J SFR25	
R105	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R106	A1006-0807	R-METAL FILM;FM 1/4 T 272-J SFR25	
R107	61048-177-223	R-CARBON;RD 1/8 T 223-J	
R111	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R112	61048-177-122	R-CARBON;RD 1/8 T 122-J	
R113	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R114	61079-917-392	R-CHIP;RH C2012 CS 392-J	
ZD101	62169-403-821	DICOD-ZENER;MTZ 5.1B	
ZD102	62169-403-821	DICOD-ZENER;MTZ 5.1B	
ZD103	62169-403-829	DICOD-ZENER;MTZ 300	
SYSTEM CONTROL PARTS			
C618	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C619	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C620	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C621	61407-117-104	C-CERAMIC;AXIAL;CAX Y TAPG 16V 103N-T	
C622	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C623	61637-502-102	C-ELEC;CEAP 6.3V 1000M SG(10X16)	
C624	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	

Loca.No	Part No	Description & Specification	Remark
C625	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C626	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C627	A1100-0017	C-CERAMIC;CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C628	A1100-0017	C-CERAMIC;CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C631	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C632	A1100-0015	C-CERAMIC;CHIP;CK 73 X7R 50V T 152-K C2012	
C633	A1100-0086	C-CERAMIC;CHIP;CC 73 COG 50V T 120-J C2012 21C 120	
C634	A1100-0086	C-CERAMIC;CHIP;CC 73 COG 50V T 120-J C2012 21C 120	
C635	61637-208-010	C-ELEC;CEAP 50V 1M SA(5X11)	
C636	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C637	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C638	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C640	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C641	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CN601	B6010-0360	CONNECTOR-WAFER;HLEMA-27S-1 BLK	
CN603	A6010-0256	CONNECTOR-WAFER;52556-0790 WHT	
CN605	63349-604-170	CONNECTOR WAFER;53014-0710	
CN606	63349-604-220	CONNECTOR WAFER;53014-1210	
D604	B4104-0046	DICOD-RECT;1N4002GP 100V 1A	
D605	A4114-0009	DICOD-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
D606	B4104-0046	DICOD-RECT;1N4002GP 100V 1A	
D607	A4114-0009	DICOD-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
IC601	67199-0080-00	IC;HD6473724 OFF OTP	
IC602	B4008-0264	IC;HCF4094BE/TC4094BP DIP LOGIC	
IC603	A4008-0754	IC;KA7533 DIP	
IC604	62119-103-712	IC;TC4021BP	
IC605	62119-401-300	IC;KAS301(N.M)	
L602	62427-813-101	COIL-PEAKING;EL0607PA 100uH-K	
L604	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L605	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857	
L606	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857	
L607	A1160-0016	INDUCTOR;70uH-M RT BFS3565R2F	
L608	A1160-0016	INDUCTOR;70uH-M RT BFS3565R2F	
LD601	62309-112-043	LED IR;GL-451(SHARP)	
Q610	62129-101-080	TRANSISTOR;CHIP;KSA 812-G(REEL)	
Q611	62129-101-173	TRANSISTOR;CHIP;KSR 1104(REEL)	
Q612	62129-101-172	TRANSISTOR;CHIP;KSC 1623G(REEL)	
Q613	62129-101-172	TRANSISTOR;CHIP;KSC 1623G(REEL)	
Q614	A4056-0036	TR-SWITCHING;CHIP;KSR2101 200MM 200MHZ SI/PHF T	
Q615	62129-301-104	TRANSISTOR;CHIP;KSR 1103(REEL)	
Q616	66419-0001-00	INTERUPTE-PRD;SG-105LF	
Q617	66419-0001-00	INTERUPTE-PRD;SG-105LF	
Q618	66219-0010-00	SENSOR-PHOTO TRANSISTOR;PT 493F	
Q619	66219-0010-00	SENSOR-PHOTO TRANSISTOR;PT 493F	
R615	61048-177-223	R-CARBON;RD 1/8 T 223-J	
R616	61079-917-682	R-CHIP;RH C2012 CS 682-J	
R617	61079-917-683	R-CHIP;RH C2012 CS 683-J	
R618	61079-917-511	R-CHIP;RH C2012 CS 511-J	
R619	61079-917-220	R-CHIP;RH C2012 CS 220-J	
R620	61079-917-220	R-CHIP;RH C2012 CS 220-J	
R622	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R623	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R624	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R625	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R626	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R627	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R628	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R631	61048-177-182	R-CARBON;RD 1/8 T 182-J	
R632	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R633	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R634	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R635	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R636	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R637	61079-917-102	R-CHIP;RH C2012 CS 102-J	

Loca.No	Part No	Description & Specification	Remark
R638	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R639	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R641	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R643	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R644	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R645	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R646	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R647	61079-917-105	R-CHIP;RH C2012 CS 105-J	
R648	61048-177-562	R-CARBON;RD 1/8 T 562-J	
R649	61048-177-562	R-CARBON;RD 1/8 T 562-J	
R650	61048-177-473	R-CARBON;RD 1/8 T 473-J	
R651	61048-177-473	R-CARBON;RD 1/8 T 473-J	
R652	61048-177-473	R-CARBON;RD 1/8 T 473-J	
R653	61048-177-473	R-CARBON;RD 1/8 T 473-J	
R654	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R656	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R657	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R658	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R659	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R660	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R661	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R662	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R663	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R664	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R665	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R666	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R667	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R668	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R669	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R670	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R671	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R672	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R673	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R674	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R675	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R676	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R677	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R678	A1020-0315	R-CHIP;RH 1/10 CS 513-J C2012 RMC 1/10 51K-J	
R679	61079-917-122	R-CHIP;RH C2012 CS 122-J	
R680	A1004-0423	R-METAL OXIDE;RS 1 RT 7R5-J	
R681	A1004-0423	R-METAL OXIDE;RS 1 RT 7R5-J	
R682	61079-917-682	R-CHIP;RH C2012 CS 682-J	
R683	61048-177-274	R-CARBON;RD 1/8 TS 274-J	
R684	61079-917-303	R-CHIP;RH C2012 CS 303-J	
R685	61079-917-221	R-CHIP;RH C2012 CS 221-J	
R686	61079-917-203	R-CHIP;RH C2012 CS 203-J	
R687	61079-917-224	R-CHIP;RH C2012 CS 224-J	
R688	61079-917-224	R-CHIP;RH C2012 CS 224-J	
R689	61079-917-391	R-CHIP;RH C2012 CS 391-J	
R690	61079-917-224	R-CHIP;RH C2012 CS 224-J	
R691	61079-917-224	R-CHIP;RH C2012 CS 224-J	
R692	61079-917-391	R-CHIP;RH C2012 CS 391-J	
R693	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R694	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R695	61079-917-000	R-CHIP;RH C2012 CS 000-J	
R696	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R697	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R698	61048-177-102	R-CARBON;RD 1/8 T 102-J	
SW601	66209-0008-00	SWITCH-REC;MPU 10105 MMB0 5V	
X601	B1283-0036	RESONATOR-CERAMIC;8MHz EFOEC8004T4 3/CN J TAPG	
X602	64539-021-009	CRYSTAL;32.768KHZ	
SERVO PARTS			
C201	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C202	B1102-0112	C-FILM;CO 922 P 50V T 224-J CQ298PVT224JECOV1H224J	

Loca.No	Part No	Description & Specification	Remark
C203	61507-121-540	C-POLYESTER;CQ921M TAPG 50V 393-K	
C204	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C205	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C206	61637-208-010	C-ELEC;CEAP 50V 1M SA(5X11)	
C207	61507-121-571	C-POLYESTER;CQ921M TAPG 50V 683-J	
C208	61627-208-010	C-ELEC;CEAP 50V 1M NP(6X11)	
C209	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C210	61637-208-479	C-ELEC;CEAP 50V 4.7M SA(5X11)	
C211	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C212	B1102-0112	C-FILM;CO 922 P 50V T 224-J CQ298PVT224JECOV1H224J	
C213	61417-104-282	C-CERAMIC;HK;CK45B TAPG 50V 102-K	
C214	61507-121-341	C-POLYESTER;CQ921M TAPG 50V 102-J	
C215	61637-204-330	C-ELEC;CEAP 16V 33M SA(5X11)	
C216	A1100-0041	C-CERAMIC;CHIP;CC 73 CCG 50V T 181-J C2012 CL21C18	
C217	A1100-0062	C-CERAMIC;CHIP;CC 73 CCG 50V T 221-J C2012 21C 221	
C218	61637-208-479	C-ELEC;CEAP 50V 4.7M SA(5X11)	
C219	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C220	A1100-0071	C-CERAMIC;CHIP;CC 73 CCG 50V T 391-J C2012 21C 391	
C221	61637-204-100	C-ELEC;CEAP 16V 10M SA(5X11)	
C222	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C223	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C225	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C226	61507-121-550	C-POLYESTER;CQ921M TAPG 50V 473-K	
C228	A1100-0064	C-CERAMIC;CHIP;CC 73 CCG 50V T 270-J C2012 CL21C27	
C229	A1100-0080	C-CERAMIC;CHIP;CC 73 CCG 50V T 820-J C2012 21C 820	
C230	61507-121-420	C-POLYESTER;CQ921M TAPG 50V 392-K	
C231	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C253	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C254	A1100-0006	C-CERAMIC;CHIP;CK 73 X7R 50V T 561-K C2012 21B 561	
C255	A1100-0071	C-CERAMIC;CHIP;CC 73 CCG 50V T 391-J C2012 21C 391	
C256	A1100-0071	C-CERAMIC;CHIP;CC 73 CCG 50V T 391-J C2012 21C 391	
C257	A1100-0071	C-CERAMIC;CHIP;CC 73 CCG 50V T 391-J C2012 21C 391	
C258	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C259	A1100-0017	C-CERAMIC;CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C260	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CN201	63053-916-589	LEAD CONNECTOR ASSY;#26 828319073-06 190MM	
CN202	A6010-0254	CONNECTOR-WAFER;52556-0990 NHT	
D201	A4114-0009	DIODE-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
D202	A4114-0009	DIODE-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
D203	A4114-0009	DIODE-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
D204	62169-406-482	DIODE;1N4148 SAMSUNG	
D205	A4114-0009	DIODE-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
D206	A4114-0009	DIODE-ARRAY;CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
IC201	A4012-0304	IC-LINEAR;KA8327 OFF	
L201	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L202	62427-813-101	COIL-PEAKING;EL0607RA 100uH-K	
L203	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
Q201	62129-301-109	TRANSISTOR;CHIP;KSR 2103-(REEL)	
Q202	62129-301-104	TRANSISTOR;CHIP;KSR 1103-(REEL)	
Q203	62129-301-104	TRANSISTOR;CHIP;KSR 1103-(REEL)	
Q204	62129-101-080	TRANSISTOR;CHIP;KSA 812-G(REEL)	
Q205	62129-301-104	TRANSISTOR;CHIP;KSR 1103-(REEL)	
Q206	62129-301-104	TRANSISTOR;CHIP;KSR 1103-(REEL)	
Q208	62129-301-109	TRANSISTOR;CHIP;KSR 2103-(REEL)	
Q209	62129-301-104	TRANSISTOR;CHIP;KSR 1103-(REEL)	
Q210	62129-101-172	TRANSISTOR;CHIP;KSC 1623G(REEL)	
R201	61079-917-122	R-CHIP;RH C2012 CS 122-J	
R202	61079-917-622	R-CHIP;RH C2012 CS 622-J	
R203	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R204	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R205	61079-917-432	R-CHIP;RH C2012 CS 432-J	
R206	61079-917-123	R-CHIP;RH C2012 CS 123-J	
R207	61079-917-274	R-CHIP;RH C2012 CS 274-J	
R208	61079-917-105	R-CHIP;RH C2012 CS 105-J	

Loca.No	Part No	Description & Specification	Remark
R209	61079-917-273	R-CHIP:RH C2012 CS 273-J	
R210	61079-917-393	R-CHIP:RH C2012 CS 393-J	
R211	61079-917-105	R-CHIP:RH C2012 CS 105-J	
R212	61079-917-564	R-CHIP:RH C2012 CS 564-J	
R213	61079-917-473	R-CHIP:RH C2012 CS 473-J	
R214	61079-917-105	R-CHIP:RH C2012 CS 105-J	
R215	61079-917-224	R-CHIP:RH C2012 CS 224-J	
R216	61079-917-104	R-CHIP:RH C2012 CS 104-J	
R217	61079-917-473	R-CHIP:RH C2012 CS 473-J	
R218	61079-917-363	R-CHIP:RH C2012 CS 363-J	
R219	61079-917-823	R-CHIP:RH C2012 CS 823-J	
R220	61079-917-684	R-CHIP:RH C2012 CS 684-J	
R221	61079-917-104	R-CHIP:RH C2012 CS 104-J	
R222	61079-917-822	R-CHIP:RH C2012 CS 822-J	
R223	61079-917-271	R-CHIP:RH C2012 CS 271-J	
R224	61079-917-271	R-CHIP:RH C2012 CS 271-J	
R225	61079-917-102	R-CHIP:RH C2012 CS 102-J	
R226	61079-917-103	R-CHIP:RH C2012 CS 103-J	
R227	61079-917-684	R-CHIP:RH C2012 CS 684-J	
R228	61048-177-683	R-CARBON:RD 1/8 T 683-J	
R229	61079-917-471	R-CHIP:RH C2012 CS 471-J	
R230	61048-177-102	R-CARBON:RD 1/8 T 102-J	
R231	61079-917-104	R-CHIP:RH C2012 CS 104-J	
R235	61079-917-102	R-CHIP:RH C2012 CS 102-J	
R236	61048-177-102	R-CARBON:RD 1/8 T 102-J	
R237	61079-917-103	R-CHIP:RH C2012 CS 103-J	
R238	61079-917-102	R-CHIP:RH C2012 CS 102-J	
R239	61079-917-103	R-CHIP:RH C2012 CS 103-J	
R240	61048-177-102	R-CARBON:RD 1/8 T 102-J	
R241	61079-917-473	R-CHIP:RH C2012 CS 473-J	
R242	61079-917-103	R-CHIP:RH C2012 CS 103-J	
R243	61079-917-333	R-CHIP:RH C2012 CS 333-J	
R244	61079-917-103	R-CHIP:RH C2012 CS 103-J	
R245	61079-917-103	R-CHIP:RH C2012 CS 103-J	
R246	61079-917-103	R-CHIP:RH C2012 CS 103-J	
R247	61079-917-132	R-CHIP:RH C2012 CS 132-J	
R248	61079-917-473	R-CHIP:RH C2012 CS 473-J	
R249	A1020-0315	R-CHIP:RH 1/10 CS 513-J C2012 FMC 1/10 51K-J	
R250	61079-917-134	R-CHIP:RH C2012 CS 134-J	
R251	61048-177-102	R-CARBON:RD 1/8 T 102-J	
R252	61048-177-102	R-CARBON:RD 1/8 T 102-J	
R253	61079-917-622	R-CHIP:RH C2012 CS 622-J	
R255	61079-917-123	R-CHIP:RH C2012 CS 123-J	
R256	61048-177-102	R-CARBON:RD 1/8 T 102-J	
R257	61079-917-102	R-CHIP:RH C2012 CS 102-J	
R258	61079-917-122	R-CHIP:RH C2012 CS 122-J	
VR201	B1054-0228	VR-SEMI:EVN-CYAA03-B15 100KB CARBON T TOP 2.5W 50V	
X201	64539-012-009	CRYSTAL:3.579545 HC/49U(8PF) TAPG	
ZD201	62169-423-092	DIODE-ZENER:MTZ 6.8B/UZ 6.8BH	
ZD202	62169-423-092	DIODE-ZENER:MTZ 6.8B/UZ 6.8BH	
YIC-2 PARTS			
C3S01	61637-208-010	C-ELEC:CEAP 50V 1M SA(5X11)	
C3S02	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S03	61637-208-479	C-ELEC:CEAP 50V 4.7M SA(5X11)	
C3S04	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S05	61637-205-470	C-ELEC:CEAP 25V 47M SA(6X11)	
C3S07	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S08	A1100-0086	C-CERAMIC,CHIP:CC 73 COG 50V T 120-J C2012 21C 120	
C3S09	A1100-0076	C-CERAMIC,CHIP:CC 73 COG 50V T 680-J C2012 CL21C68	
C3S10	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S11	61637-208-478	C-ELEC:CEAP 50V 0.47M SA(5X11)	
C3S12	61637-208-479	C-ELEC:CEAP 50V 4.7M SA(5X11)	
C3S13	61637-204-100	C-ELEC:CEAP 16V 10M SA(5X11)	
C3S14	A1100-0053	C-CERAMIC,CHIP:CC 73 COG 50V T 390-J C2012 21C 390	

Loca.No	Part No	Description & Specification	Remark
C3S15	A1100-0061	C-CERAMIC,CHIP:CC 73 COG 50V T 220-J C2012 21C220J	
C3S16	A1100-0076	C-CERAMIC,CHIP:CC 73 COG 50V T 680-J C2012 CL21C68	
C3S18	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S19	61637-505-101	C-ELEC:CEAP 25V 100M SG(6.3X11)	
C3S20	A1100-0081	C-CERAMIC,CHIP:CC 73 COG 50V T 821-J C2012 21C 821	
C3S21	61407-117-104	C-CERAMIC,AXIAL:CAX Y TAPG 16V 103N-T	
C3S22	61407-117-102	C-CERAMIC,AXIAL:CAX B TAPG 102K-T	
C3S23	61637-505-101	C-ELEC:CEAP 25V 100M SG(6.3X11)	
C3S24	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S25	61637-205-470	C-ELEC:CEAP 25V 47M SA(6X11)	
C3S26	61637-204-330	C-ELEC:CEAP 16V 33M SA(5X11)	
C3S27	61407-117-104	C-CERAMIC,AXIAL:CAX Y TAPG 16V 103N-T	
C3S28	61637-505-101	C-ELEC:CEAP 25V 100M SG(6.3X11)	
C3S29	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S30	61637-205-470	C-ELEC:CEAP 25V 47M SA(6X11)	
C3S31	61637-204-330	C-ELEC:CEAP 16V 33M SA(5X11)	
C3S32	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S33	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S34	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S35	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S36	61637-205-470	C-ELEC:CEAP 25V 47M SA(6X11)	
C3S37	61407-101-290	C-CERAMIC,TEMP:CC45 SL TAPG 50V 56-J	
C3S38	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S39	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S40	61637-205-470	C-ELEC:CEAP 25V 47M SA(6X11)	
C3S41	A1100-0009	C-CERAMIC,CHIP:CC 73 COG 50V T 101-J C2012 21C101J	
C3S42	61507-121-350	C-POLYESTER:CO921M TAPG 50V 122-K	
C3S43	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S44	A1100-0017	C-CERAMIC,CHIP:CC 73 Z5U 50V T 104-Z C2012 21F104Z	
C3S45	A1100-0013	C-CERAMIC,CHIP:CC 73 X7R 50V T 102-J C2012 21B 102	
C3S46	A1100-0038	C-CERAMIC,CHIP:CC 73 COG 50V T 151-J C2012 21C151J	
C3S47	61407-117-104	C-CERAMIC,AXIAL:CAX Y TAPG 16V 103N-T	
C3S48	A1100-0062	C-CERAMIC,CHIP:CC 73 COG 50V T 221-J C2012 21C 221	
C3S49	61637-208-010	C-ELEC:CEAP 50V 1M SA(5X11)	
C3S50	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S51	A1100-0009	C-CERAMIC,CHIP:CC 73 COG 50V T 101-J C2012 21C101J	
C3S52	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S53	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S54	61637-205-470	C-ELEC:CEAP 25V 47M SA(6X11)	
C3S55	A1100-0067	C-CERAMIC,CHIP:CC 73 COG 50V T 330-J C2012 21C 330	
C3S56	A1100-0004	C-CERAMIC,CHIP:CC 73 COG 50V T 560-J C2012 21C560J	
C3S70	A1100-0011	C-CERAMIC,CHIP:CC 73 X7R 50V T 103-K C2012 21B103K	
C3S71	61407-117-102	C-CERAMIC,AXIAL:CAX B TAPG 102K-T	
QNY1	A6010-1053	CONNECTOR-WAFER:GB200-08P-TS BRN G/S	
QNY3	A6010-1052	CONNECTOR-WAFER:GB200-08P-TS BRN G/S	
D3S01	62169-406-482	DIODE:1N4148 SAMSUNG	
D3S02	A4114-0009	DIODE-ARRAY,CHIP:DAN202K 80V 100MA 4NS CA2-3 T	
D3S11	62169-406-482	DIODE:1N4148 SAMSUNG	
FL3S01	64527-310-010	FILTER CERAMIC:SFE4.5MB TAPG	
FL3S02	A1134-0015	COIL-TRAP:7.8KHZ 23.5MH 0.018UF	
FL3S03	64527-310-010	FILTER CERAMIC:SFE4.5MB TAPG	
FL3S04	A1134-0015	COIL-TRAP:7.8KHZ 23.5MH 0.018UF	
FL3S05	62809-006-030	COIL TUNING:1.072 MHZ	
FL3S06	62429-038-014	FILTER LC:4.3 MHZ BPF	
FL3S07	64529-632-111	FILTER-LC DIP TYPE:4.3S	
FL3S08	A1240-0073	FILTER-LC:BP 1.07M 1.07MEPF CBP1.1S-1	
FL3S09	62809-006-020	COIL TUNING:4.28 MHZ	
FL3S10	62809-006-030	COIL TUNING:1.072 MHZ	
IC3S01	B4014-0046	IC-CCD:TL8828P(0.32H) DIP	
IC3S02	62119-401-302	IC:KA8402(TA7347P)	
IC3S03	A4008-0035	IC:BA702SL SIP X-1 PAL	
IC3S04	A4008-0035	IC:BA702SL SIP X-1 PAL	
IC3S05	62119-103-689	IC:BA7107S	
L3S01	62429-833-101	COIL-PEAKING AXIAL:BA045T 101K	

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L3S02	62427-020-180	COIL PEAKING AXIAL;LAL02TB 180J TAPG	
L3S03	62427-020-560	COIL PEAKING AXIAL;LAL02TB 560J TAPG	
L3S04	62427-020-011	COIL PEAKING AXIAL;LAL02TB 100J TAPG	
L3S05	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L3S06	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L3S07	62427-812-101	COIL-PEAKING;ELO606RA 100uH-J	
L3S08	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L3S09	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L3S10	62427-020-151	COIL PEAKING AXIAL;LAL02TB 151J TAPG	
L3S11	62427-812-101	COIL-PEAKING;ELO606RA 100uH-J	
L3S12	62427-020-680	COIL PEAKING AXIAL;LAL02TB 680J TAPG	
L3S13	62427-020-390	COIL PEAKING AXIAL;LAL02TB 390J TAPG	
L3S14	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857	
L3S15	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857	
Q3S01	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
Q3S02	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3S03	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3S04	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q3S05	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q3S06	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
Q3S07	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S08	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q3S09	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S10	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S11	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q3S12	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S13	62129-101-130	TRANSISTOR,CHIP;KSR 2102 (REEL)	
Q3S14	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S15	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3S42	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S43	62129-301-109	TRANSISTOR,CHIP;KSR 2103-(REEL)	
Q3S46	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S47	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S48	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3S49	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
R3S01	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3S02	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3S03	61079-917-101	R-CHIP;RH C2012 CS 101-J	
R3S04	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S05	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S06	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3S07	61079-917-331	R-CHIP;RH C2012 CS 331-J	
R3S08	61048-177-681	R-CARBON;RD 1/8 T 681-J	
R3S09	61079-917-101	R-CHIP;RH C2012 CS 101-J	
R3S10	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3S11	61079-917-132	R-CHIP;RH C2012 CS 132-J	
R3S12	61079-917-682	R-CHIP;RH C2012 CS 682-J	
R3S13	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3S14	61079-917-569	R-CHIP;RH C2012 CS 560-J	
R3S15	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R3S16	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3S17	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3S18	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3S19	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S20	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S21	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S22	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3S23	61079-917-154	R-CHIP;RH C2012 CS 154-J	
R3S24	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3S25	61079-917-823	R-CHIP;RH C2012 CS 823-J	
R3S26	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S27	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S28	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3S29	61079-917-102	R-CHIP;RH C2012 CS 102-J	

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R3S30	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3S31	61079-917-154	R-CHIP;RH C2012 CS 154-J	
R3S32	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R3S33	61079-917-153	R-CHIP;RH C2012 CS 153-J	
R3S34	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R3S35	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S36	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S37	61079-917-332	R-CHIP;RH C2012 CS 332-J	
R3S38	61079-917-681	R-CHIP;RH C2012 CS 681-J	
R3S39	61079-917-821	R-CHIP;RH C2012 CS 821-J	
R3S40	61079-917-331	R-CHIP;RH C2012 CS 331-J	
R3S41	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R3S42	61079-917-680	R-CHIP;RH C2012 CS 680-J	
R3S43	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3S44	61079-917-122	R-CHIP;RH C2012 CS 122-J	
R3S45	61079-917-821	R-CHIP;RH C2012 CS 821-J	
R3S46	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3S47	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S48	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3S49	61079-917-821	R-CHIP;RH C2012 CS 821-J	
R3S50	61079-917-271	R-CHIP;RH C2012 CS 271-J	
R3S51	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3S52	61079-917-821	R-CHIP;RH C2012 CS 821-J	
R3S53	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3S54	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S55	61079-917-333	R-CHIP;RH C2012 CS 333-J	
R3S56	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R3S58	61079-917-393	R-CHIP;RH C2012 CS 393-J	
R3S60	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S61	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S62	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S63	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S64	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3S65	61079-917-391	R-CHIP;RH C2012 CS 391-J	
R3S72	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3S75	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3S76	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3S77	61079-917-183	R-CHIP;RH C2012 CS 183-J	
R3S78	61079-917-229	R-CHIP;RH C2012 CS 229-J	
R3S79	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R3S80	61079-917-100	R-CHIP;RH C2012 CS 100-J	
VR3S01	B1054-0229	VR-SEMI;EWN-CYAA03-BE3 2.2KB CARBON T TOP 2.5W 50V	
VR3S02	B1054-0230	VR-SEMI;EWN-CYAA03-BE4 22KB CARBON T TOP 2.5W 50V	
XT3S01	64539-012-122	CRYSTAL;14.31818MHZ	
ZD3S01	62169-403-301	DIODE-ZENER;UZ 3.0B TAPG	
602	69512-302-201	ASSY PRE-AMP YIC;SV-300W	
PRE-AMP PARTS			
C3101	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C3102	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3103	A1100-0004	C-CERAMIC,CHIP;CC 73 COG 50V T 560-J C2012 21C560J	
C3104	A1100-0004	C-CERAMIC,CHIP;CC 73 COG 50V T 560-J C2012 21C560J	
C3105	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3106	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C3107	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C3108	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3109	A1100-0061	C-CERAMIC,CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
C3110	A1100-0061	C-CERAMIC,CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
C3111	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3112	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C3113	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3114	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3115	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C3116	A1100-0135	C-CERAMIC,CHIP;CK 73 X7R 50V T 473-K C2012 21B473K	
C3117	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	

Loca.No	Part No	Description & Specification	Remark
C3118	61617-405-470	C-ELECTROLYTIC;CE04W TAPG 25V 47M(RSS 6.3X7)	
C3119	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3120	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3121	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3122	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3123	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C3124	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3125	A1100-0076	C-CERAMIC,CHIP;CC 73 C0G 50V T 680-J C2012 CL21C68	
C3126	A1100-0062	C-CERAMIC,CHIP;CC 73 C0G 50V T 221-J C2012 21C 221	
C3128	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
C3129	A1100-0068	C-CERAMIC,CHIP;CC 73 C0G 50V T 331-J C2012 21C331J	
C3130	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3131	61617-405-470	C-ELECTROLYTIC;CE04W TAPG 25V 47M(RSS 6.3X7)	
C3132	A1100-0076	C-CERAMIC,CHIP;CC 73 C0G 50V T 680-J C2012 CL21C68	
C3133	A1100-0076	C-CERAMIC,CHIP;CC 73 C0G 50V T 680-J C2012 CL21C68	
C3134	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3136	A1100-0059	C-CERAMIC,CHIP;CC 73 C0G 50V T 180-J C2012	
C3137	A1100-0073	C-CERAMIC,CHIP;CC 73 C0G 50V T 470-J C2012 21C470J	
C3138	A1100-0009	C-CERAMIC,CHIP;CC 73 C0G 50V T 101-J C2012 21C101J	
C3139	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
C3140	A1100-0059	C-CERAMIC,CHIP;CC 73 C0G 50V T 180-J C2012	
C3141	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3142	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3143	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3144	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3145	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3146	A1100-0086	C-CERAMIC,CHIP;CC 73 C0G 50V T 120-J C2012 21C 120	
C3147	A1100-0067	C-CERAMIC,CHIP;CC 73 C0G 50V T 330-J C2012 21C 330	
C3148	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3149	A1100-0053	C-CERAMIC,CHIP;CC 73 C0G 50V T 390-J C2012 21C 390	
C3150	A1100-0059	C-CERAMIC,CHIP;CC 73 C0G 50V T 180-J C2012	
C3151	A1100-0004	C-CERAMIC,CHIP;CC 73 C0G 50V T 560-J C2012 21C560J	
C3152	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3153	A1100-0073	C-CERAMIC,CHIP;CC 73 C0G 50V T 470-J C2012 21C470J	
C3154	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3155	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C3156	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
C3157	A1100-0036	C-CERAMIC,CHIP;CC 73 C0G 50V T 121-J C2012	
C3158	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3159	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C3A01	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
C3A02	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3A03	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3A04	61617-404-101	C-ELEC;CEAP 16V 100M RSS(6.3X7)	
C3A05	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C3A06	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3A07	61617-404-101	C-ELEC;CEAP 16V 100M RSS(6.3X7)	
C3A08	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C3A09	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C3A10	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
C3A11	61454-154-681	C-CERAMIC,CHIP;C1608 B1H 681KT	
C3A12	61454-154-681	C-CERAMIC,CHIP;C1608 B1H 681KT	
C3A13	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
C3A14	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C3A15	61454-154-681	C-CERAMIC,CHIP;C1608 B1H 681KT	
C3A16	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CNB101	63344-111-160	CONNECTOR FPC;S2045-1010	
IC3101	B4012-0044	IC-LINEAR;BA7277S DIP YIC PRE AMP	
IC3A01	B4012-0043	IC-LINEAR;BA7743S DIP HIFI PRE AMP	
L3101	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	
L3102	62427-812-271	COIL-PEAKING;EL0606RA 270uH-J	
L3103	62427-812-471	COIL-PEAKING;EL0606RA 470uH-J	
L3104	62427-812-331	COIL-PEAKING;EL0606RA 330uH-J	
L3105	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	

Loca.No	Part No	Description & Specification	Remark
L3107	62427-020-121	COIL PEAKING.AXIAL;LAL02TB 121J TAPG	
L3108	62427-020-330	COIL PEAKING.AXIAL;LAL02TB 330J TAPG	
L3109	62427-020-220	COIL PEAKING.AXIAL;LAL02TB 220J TAPG	
L3110	62427-020-101	COIL PEAKING.AXIAL;LAL02TB 101J TAPG	
L3111	62427-812-221	COIL-PEAKING;EL0606RA 220uH-J	
L3112	62427-020-330	COIL PEAKING.AXIAL;LAL02TB 330J TAPG	
L3113	62427-020-121	COIL PEAKING.AXIAL;LAL02TB 121J TAPG	
L3114	62427-020-220	COIL PEAKING.AXIAL;LAL02TB 220J TAPG	
L3115	62427-020-470	COIL PEAKING.AXIAL;LAL02TB 470J TAPG	
L3116	62427-020-569	COIL PEAKING.AXIAL;LAL02TB 569J TAPG	
L3117	62427-020-270	COIL PEAKING.AXIAL;LAL02TB 270J TAPG	
L3118	62427-020-390	COIL PEAKING.AXIAL;LAL02TB 390J TAPG	
L3119	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	
L3A01	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L3A02	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
Q3101	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3102	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3103	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q3104	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3105	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3106	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3107	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3108	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3109	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3110	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3111	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3112	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q3113	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3114	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3115	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3116	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3117	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q3118	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q3120	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q3121	62129-101-130	TRANSISTOR,CHIP;KSR 2102 (REEL)	
Q3A01	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
R3101	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3102	61079-917-100	R-CHIP;RH C2012 CS 100-J	
R3103	61079-917-100	R-CHIP;RH C2012 CS 100-J	
R3104	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3105	61079-917-121	R-CHIP;RH C2012 CS 121-J	
R3106	61079-917-100	R-CHIP;RH C2012 CS 100-J	
R3107	61079-917-100	R-CHIP;RH C2012 CS 100-J	
R3108	61079-917-121	R-CHIP;RH C2012 CS 121-J	
R3109	61079-917-511	R-CHIP;RH C2012 CS 511-J	
R3110	61079-917-511	R-CHIP;RH C2012 CS 511-J	
R3111	61079-917-101	R-CHIP;RH C2012 CS 101-J	
R3112	61079-917-181	R-CHIP;RH C2012 CS 181-J	
R3113	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R3114	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3115	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R3116	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3117	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3118	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3119	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3120	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3121	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3122	61079-917-333	R-CHIP;RH C2012 CS 333-J	
R3123	61079-917-153	R-CHIP;RH C2012 CS 153-J	
R3124	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3125	61079-917-101	R-CHIP;RH C2012 CS 101-J	
R3126	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3127	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3128	61079-917-622	R-CHIP;RH C2012 CS 622-J	

Loca.No	Part.No	Description & Specification	Remark
R3129	61079-917-473	R-CHIP;RH C2012 CS 473-J	
R3130	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R3131	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3132	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3133	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3134	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3135	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3136	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3137	61079-917-681	R-CHIP;RH C2012 CS 681-J	
R3138	61079-917-511	R-CHIP;RH C2012 CS 511-J	
R3139	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3140	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3141	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R3142	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R3143	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R3144	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3145	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3146	61079-917-122	R-CHIP;RH C2012 CS 122-J	
R3147	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3149	61079-917-681	R-CHIP;RH C2012 CS 681-J	
R3150	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3151	61079-917-561	R-CHIP;RH C2012 CS 561-J	
R3153	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R3154	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R3155	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3156	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R3157	61079-917-821	R-CHIP;RH C2012 CS 821-J	
R3158	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3159	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R3160	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3161	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3162	61079-917-621	R-CHIP;RH C2012 CS 621-J	
R3163	61079-917-331	R-CHIP;RH C2012 CS 331-J	
R3164	61079-917-132	R-CHIP;RH C2012 CS 132-J	
R3165	61079-917-391	R-CHIP;RH C2012 CS 391-J	
R3A01	61079-917-332	R-CHIP;RH C2012 CS 332-J	
R3A02	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3A03	61079-917-182	R-CHIP;RH C2012 CS 182-J	
R3A04	61079-917-221	R-CHIP;RH C2012 CS 221-J	
R3A05	61079-917-821	R-CHIP;RH C2012 CS 821-J	
R3A06	61079-917-682	R-CHIP;RH C2012 CS 682-J	
R3A07	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R3A08	61079-917-561	R-CHIP;RH C2012 CS 561-J	
R3A09	61079-917-561	R-CHIP;RH C2012 CS 561-J	
R3A10	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R3A11	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R3A12	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R3A13	61079-917-100	R-CHIP;RH C2012 CS 100-J	
R3A14	61079-917-224	R-CHIP;RH C2012 CS 224-J	
R3A15	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R3A16	61079-917-000	R-CHIP;RH C2012 CS 000-J	
VIC-1 PARTS			
C301	A1100-0076	C-CERAMIC,CHIP;CC 73 COG 50V T 680-J C2012 CL21C68	
C302	A1100-0053	C-CERAMIC,CHIP;CC 73 COG 50V T 390-J C2012 21C 390	
C303	A1100-0004	C-CERAMIC,CHIP;CC 73 COG 50V T 560-J C2012 21C560J	
C304	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C305	A1100-0004	C-CERAMIC,CHIP;CC 73 COG 50V T 560-J C2012 21C560J	
C306	A1100-0076	C-CERAMIC,CHIP;CC 73 COG 50V T 680-J C2012 CL21C68	
C307	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C308	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C309	A1100-0071	C-CERAMIC,CHIP;CC 73 COG 50V T 391-J C2012 21C 391	
C310	A1100-0073	C-CERAMIC,CHIP;CC 73 COG 50V T 470-J C2012 21C470J	
C311	A1100-0144	C-CERAMIC,CHIP;CC 73 COG 50V T 050-D C2012	
C312	A1100-0080	C-CERAMIC,CHIP;CC 73 COG 50V T 820-J C2012 21C 820	

Loca.No	Part No	Description & Specification	Remark
C313	61637-805-100	C-ELEC;CEAP 25V 10M SE(5X5)	
C314	61627-204-100	C-ELEC;CEAP 16V 10M NP(6X11)	
C315	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C316	A1100-0135	C-CERAMIC,CHIP;CK 73 X7R 50V T 473-K C2012 21B473K	
C317	A1100-0044	C-CERAMIC,CHIP;CK 73 X7R 50V T 223-K C2012 21B223K	
C318	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C319	A1100-0135	C-CERAMIC,CHIP;CK 73 X7R 50V T 473-K C2012 21B473K	
C320	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C322	A1100-0044	C-CERAMIC,CHIP;CK 73 X7R 50V T 223-K C2012 21B223K	
C323	A1100-0079	C-CERAMIC,CHIP;CC 73 COG 50V T 750-J C2012 21C 750	
C324	A1100-0076	C-CERAMIC,CHIP;CC 73 COG 50V T 680-J C2012 CL21C68	
C325	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C326	A1100-0044	C-CERAMIC,CHIP;CK 73 X7R 50V T 223-K C2012 21B223K	
C327	A1100-0044	C-CERAMIC,CHIP;CK 73 X7R 50V T 223-K C2012 21B223K	
C328	61617-408-339	C-ELEC;CEAP 50V 3.3M RSS(4X7)	
C329	61637-808-010	C-ELEC;CEAP 50V 1M SE(4X5)	
C330	A1100-0135	C-CERAMIC,CHIP;CK 73 X7R 50V T 473-K C2012 21B473K	
C331	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C332	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C333	A1100-0079	C-CERAMIC,CHIP;CC 73 COG 50V T 750-J C2012 21C 750	
C334	A1100-0031	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-J C0805 08055C	
C335	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C336	A1100-0031	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-J C0805 08055C	
C337	61637-805-100	C-ELEC;CEAP 25V 10M SE(5X5)	
C338	61637-805-100	C-ELEC;CEAP 25V 10M SE(5X5)	
C339	61637-805-100	C-ELEC;CEAP 25V 10M SE(5X5)	
C340	A1100-0031	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-J C0805 08055C	
C341	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C342	A1100-0143	C-CERAMIC,CHIP;CK 73 Y5V 50V T 334-Z C3216 CL31F33	
C343	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C344	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C345	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C346	A1100-0519	C-CERAMIC,CHIP;CC 73 COG 50V T 080-C C2012 CL21C	
C347	A1100-0009	C-CERAMIC,CHIP;CC 73 COG 50V T 101-J C2012 21C101J	
C348	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C349	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C350	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C351	A1100-0143	C-CERAMIC,CHIP;CK 73 Y5V 50V T 334-Z C3216 CL31F33	
C352	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C353	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C354	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C355	A1100-0086	C-CERAMIC,CHIP;CC 73 COG 50V T 120-J C2012 21C 120	
C356	A1100-0073	C-CERAMIC,CHIP;CC 73 COG 50V T 470-J C2012 21C470J	
C358	A1100-0073	C-CERAMIC,CHIP;CC 73 COG 50V T 470-J C2012 21C470J	
C359	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C360	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C361	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C362	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C363	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C364	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C365	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C366	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C367	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C368	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C369	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C370	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C371	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C372	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C379	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C380	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C381	A1100-0047	C-CERAMIC,CHIP;CK 73 X7R 50V T 272-K C2012 21B 272	
C382	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C383	61453-131-105	C-CERAMIC,CHIP;GFM42-6Y5V105Z16 TAPG	
C384	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	

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C386	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C387	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C388	A1100-0041	C-CERAMIC,CHIP;CC 73 COG 50V T 181-J C2012 CL21C18	
C390	A1100-0067	C-CERAMIC,CHIP;CC 73 COG 50V T 330-J C2012 21C 330	
C391	A1100-0086	C-CERAMIC,CHIP;CC 73 COG 50V T 120-J C2012 21C 120	
C392	A1100-0008	C-CERAMIC,CHIP;CC 73 COG 50V T 100-J C2012 21C 100	
C393	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C394	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C395	A1100-0519	C-CERAMIC,CHIP;CC 73 COG 50V T 080-C C2012 CL21C	
C397	A1100-0037	C-CERAMIC,CHIP;CC 73 COG 50V T 150-J C2012 21C 150	
C398	A1100-0043	C-CERAMIC,CHIP;CC 73 COG 50V T 200-J C2012 CL21C20	
CN301	A6010-0365	CONNECTOR-WAFER;GC200-15PLS/YFAM200-15 WHT	
CN302	A6010-0363	CONNECTOR-WAFER;GC200-12PLS WHT	
CN303	A6010-0410	CONNECTOR-WAFER;GC200-7P-LS WHT	
D301	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D302	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D303	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D304	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D305	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D306	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D307	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D309	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D310	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D311	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
D312	62169-901-074	DIODE,CHIP;MA151MK-(TX)	
DL301	64569-006-011	DELAY LINE;MS-31PC-5K	
DL302	64569-006-015	COMB FILTER;MS-31BC-3K	
DL303	62469-006-033	DELAY LINE;MS-31NC-8K	
IC301	B4008-0894	IC;LA7397 DIP	
IC302	B4008-1018	IC;MSM7402PS SIP	
IC303	B4008-0432	IC;MSM7403PS SIP	
IC304	B4008-0118	IC;NM2234L SIP	
IC306	62119-501-572	IC-LINEAR;KA358S	
L301	62427-020-330	COIL PEAKING,AXIAL;LAL02TB 330J TAPG	
L302	62427-020-330	COIL PEAKING,AXIAL;LAL02TB 330J TAPG	
L303	62427-812-339	COIL-PEAKING;EL0606RA 3.3uH-J	
L306	62427-020-560	COIL PEAKING,AXIAL;LAL02TB 560J TAPG	
L307	62427-020-560	COIL PEAKING,AXIAL;LAL02TB 560J TAPG	
L308	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	
L309	62427-020-330	COIL PEAKING,AXIAL;LAL02TB 330J TAPG	
L310	62427-020-330	COIL PEAKING,AXIAL;LAL02TB 330J TAPG	
L311	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	
L312	62427-020-150	COIL PEAKING,AXIAL;LAL02TB 150J TAPG	
L313	62427-020-150	COIL PEAKING,AXIAL;LAL02TB 150J TAPG	
L315	62427-020-011	COIL PEAKING,AXIAL;LAL02TB 100J TAPG	
L316	62427-020-820	COIL PEAKING,AXIAL;LAL02TB 820J TAPG	
L317	62427-020-330	COIL PEAKING,AXIAL;LAL02TB 330J TAPG	
L318	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	
L319	62427-020-221	COIL PEAKING,AXIAL;LAL02TB 221J TAPG	
L320	62427-020-470	COIL PEAKING,AXIAL;LAL02TB 470J TAPG	
Q301	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q302	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q303	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q304	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q305	62129-301-109	TRANSISTOR,CHIP;KSR 2103-(REEL)	
Q306	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q307	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q308	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q309	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q310	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q311	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q312	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q313	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q314	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	

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Q315	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q316	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q317	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q318	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q319	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q320	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q321	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q322	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q323	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q324	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q325	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q327	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q328	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
Q329	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q330	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
Q331	62129-301-104	TRANSISTOR,CHIP;KSR 1103(REEL)	
R301	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R303	61079-917-512	R-CHIP;RH C2012 CS 512-J	
R304	61079-917-122	R-CHIP;RH C2012 CS 122-J	
R305	61079-917-562	R-CHIP;RH C2012 CS 562-J	
R306	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R307	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R308	61079-917-474	R-CHIP;RH C2012 CS 474-J	
R309	61079-917-563	R-CHIP;RH C2012 CS 563-J	
R310	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R311	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R312	61079-917-272	R-CHIP;RH C2012 CS 272-J	
R313	61079-917-681	R-CHIP;RH C2012 CS 681-J	
R314	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R315	61079-917-105	R-CHIP;RH C2012 CS 105-J	
R316	61079-917-822	R-CHIP;RH C2012 CS 822-J	
R317	61079-917-101	R-CHIP;RH C2012 CS 101-J	
R318	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R319	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R320	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R321	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R322	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R323	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R324	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R325	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R326	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R327	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R328	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R329	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R331	61048-177-101	R-CAPCON;RD 1/8 T 101-J	
R332	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R336	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R337	61079-917-913	R-CHIP;RH C2012 CS 913-J	
R338	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R339	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R340	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R341	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R342	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R343	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R344	61079-917-222	R-CHIP;RH C2012 CS 222-J	
R345	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R346	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R347	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R348	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R349	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R350	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R351	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R352	61079-917-471	R-CHIP;RH C2012 CS 471-J	
R353	61079-917-222	R-CHIP;RH C2012 CS 222-J	

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R354	61079-917-271	R-CHIP;RH C2012 CS 271-J	
R355	61079-917-122	R-CHIP;RH C2012 CS 122-J	
R357	61079-917-271	R-CHIP;RH C2012 CS 271-J	
R358	61079-917-122	R-CHIP;RH C2012 CS 122-J	
R359	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R360	61079-917-391	R-CHIP;RH C2012 CS 391-J	
R361	61079-917-391	R-CHIP;RH C2012 CS 391-J	
R362	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R371	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R372	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R373	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R374	61079-917-105	R-CHIP;RH C2012 CS 105-J	
R375	61079-917-333	R-CHIP;RH C2012 CS 333-J	
R376	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R377	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R378	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R379	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R380	61079-917-473	R-CHIP;RH C2012 CS 473-J	
R381	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R382	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R383	61079-917-153	R-CHIP;RH C2012 CS 153-J	
R384	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R386	61079-917-101	R-CHIP;RH C2012 CS 101-J	
R387	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R388	61079-917-113	R-CHIP;RH C2012 CS 113-J	
R389	61079-917-683	R-CHIP;RH C2012 CS 683-J	
VR301	61247-102-223	VR-SEMI;EVN-DCA A03 B4 TAPG 22KB	
VR302	B1054-0198	VR-SEMI;EVN-DCAA03-B13 10KB CARBON TAPG	
VR303	B1054-0198	VR-SEMI;EVN-DCAA03-B13 10KB CARBON TAPG	
VR305	61247-102-223	VR-SEMI;EVN-DCA A03 B4 TAPG 22KB	
VR3102	61247-102-102	VR-SEMI;EVN-DCA A03 B13 TAPG 1KB	
XT301	64539-012-090	CRYSTAL;3.579545MHZ KSS6M	
XT302	64539-012-042	CRYSTAL;HC-18/U(3.575611 MHZ)	
XT303	64539-012-079	X-TAL;4.43 3619MHZ 8PM TAPG	
603	69523-302-201	ASSY HI-FI I/O;SV-300W	
C4301	61617-405-470	C-ELECTROLYTIC;CE04W TAPG 25V 47M(RSS 6.3X7)	
C4302	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C4303	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C4304	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C4305	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C4306	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C4307	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C4308	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C4309	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C4310	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C4311	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C4312	61617-405-479	C-ELEC;CEAP 25V 4.7M RSS(4X7)	
C4313	61617-404-220	C-ELEC;CEAP 16V 22M RSS(5X7)	
C4314	61617-404-101	C-ELEC;CEAP 16V 100M RSS(6.3X7)	
C4315	61617-404-101	C-ELEC;CEAP 16V 100M RSS(6.3X7)	
C4316	61617-404-220	C-ELEC;CEAP 16V 22M RSS(5X7)	
C4317	61617-405-479	C-ELEC;CEAP 25V 4.7M RSS(4X7)	
C4318	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C4319	61617-405-470	C-ELECTROLYTIC;CE04W TAPG 25V 47M(RSS 6.3X7)	
C4320	A1100-0009	C-CERAMIC,CHIP;CC 73 COG 50V T 101-J C2012 21C101J	
C4321	A1100-0009	C-CERAMIC,CHIP;CC 73 COG 50V T 101-J C2012 21C101J	
CN4301	A6010-0265	CONNECTOR-WAFER;GC200-14PLS WHT	
CN4302	63349-603-110	CONNECTOR-WAFER;53015-1110	
CN4303	A6010-0264	CONNECTOR-WAFER;GC200-10PLS WHT	
DA301	A4114-0009	DIODE-ARRAY,CHIP;DAN202K 80V 100MA 4NS CA2-3 T	
IC4301	B4008-0264	IC;HCF4094BE/TC4094BP DIP LOGIC	
IC4302	B4008-0118	IC;NM2234L SIP	
IC4303	B4008-0118	IC;NM2234L SIP	
IC4304	B4008-1145	IC-DRIVE;NM2267D DIP	

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JC4301	A3040-0004	JACK-PIN;P110 DSP-8805-03 YEL 3P	
JC4302	A3040-0161	JACK-PIN;P13.6 DSPS-91106 3P	
JC4304	A3040-0004	JACK-PIN;P110 DSP-8805-03 YEL 3P	
JC4305	A3040-0003	JACK-PIN;P110 DSP-8805-03 WHT 3P	
JC4306	A3040-0002	JACK-PIN;P110 DSP-8805-03 RED 3P	
JC4307	A3040-0004	JACK-PIN;P110 DSP-8805-03 YEL 3P	
JC4308	A3040-0003	JACK-PIN;P110 DSP-8805-03 WHT 3P	
JC4309	A3040-0002	JACK-PIN;P110 DSP-8805-03 RED 3P	
JC4310	63334-104-075	JACK SUPER;TCS7948-01-201	
L4302	62427-612-101	COIL-PEAKING;EL0606RA 100UH-J	
Q4301	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
Q4302	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q4303	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
Q4304	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
Q4305	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
Q4306	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
Q4307	62129-101-140	TRANSISTOR,CHIP;KSR 2104(REEL)	
RA301	61079-917-112	R-CHIP;RH C2012 CS 112-J	
RA302	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA303	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA304	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RA305	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RA306	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA307	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RA308	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA309	61048-177-102	R-CARBON;PD 1/8 T 102-J	
RA310	61079-917-132	R-CHIP;RH C2012 CS 132-J	
RA311	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RA312	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA313	61079-917-102	R-CHIP;RH C2012 CS 102-J	
SW4301	63519-102-071	SW-SLIDE;KSA 2340A/T0023002-3	
SW4302	63519-102-071	SW-SLIDE;KSA 2340A/T0023002-3	
TP4031	A6010-0412	CONNECTOR-WAFER;GC250-13P-TS-L3-MD GRV	
C701	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C702	A1100-0744	C-CERAMIC,CHIP;CK 73 Y5V 50V T 223-Z C2012 C2012Y5	
C703	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C704	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C706	61637-204-330	C-ELEC;CEAP 16V 33M SA(5X11)	
C707	61507-121-551	C-POLYESTER;C0921M TAPG 50V 473-J	
C708	61637-208-229	C-ELEC;CEAP 50V 2.2M SA (5X11)	
C709	61637-505-101	C-ELEC;CEAP 25V 100M SG(6.3X11)	
C710	61507-121-480	C-POLYESTER;C0921M TAPG 50V 153-K	
C711	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C712	61507-121-471	C-POLYESTER;C0921M TAPG 50V 103-J	
C713	61507-121-341	C-POLYESTER;C0921M TAPG 50V 102-J	
C714	A1100-0744	C-CERAMIC,CHIP;CK 73 Y5V 50V T 223-Z C2012 C2012Y5	
C715	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C716	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C717	61407-117-104	C-CERAMIC,AXIAL;CAX Y TAPG 16V 103N-T	
C718	A1100-0744	C-CERAMIC,CHIP;CK 73 Y5V 50V T 223-Z C2012 C2012Y5	
C719	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C720	A1100-0065	C-CERAMIC,CHIP;CC 73 COG 50V T 271-J C2012 21C 271	
C721	A1100-0046	C-CERAMIC,CHIP;CK 73 Y5V 50V T 224-Z C3216 31F 224	
C722	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C723	61507-121-471	C-POLYESTER;C0921M TAPG 50V 103-J	
C724	61507-121-341	C-POLYESTER;C0921M TAPG 50V 102-J	
C725	61507-121-480	C-POLYESTER;C0921M TAPG 50V 153-K	
C726	61637-505-101	C-ELEC;CEAP 25V 100M SG(6.3X11)	
C727	61637-208-229	C-ELEC;CEAP 50V 2.2M SA (5X11)	
C728	61637-204-330	C-ELEC;CEAP 16V 33M SA(5X11)	
C729	61507-121-551	C-POLYESTER;C0921M TAPG 50V 473-J	
C730	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C731	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	
C732	61453-131-105	C-CERAMIC,CHIP;GRM42-6Y5V105Z16 TAPG	

Loca.No	Part No	Description & Specification	Remark
C733	61617-404-220	C-ELEC;CEAP 16V 22M RSS(5X7)	
C734	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C736	61507-121-610	C-POLYESTER;C0921M TAPG 50V 123-J	
C737	61507-121-450	C-POLYESTER;C0921M TAPG 50V 682-K	
C739	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C740	A1100-0013	C-CERAMIC;CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
C741	61507-121-410	C-POLYESTER;C0921M TAPG 50V 332-K	
C742	61637-208-010	C-ELEC;CEAP 50V 1M SA(5X11)	
C744	61617-404-220	C-ELEC;CEAP 16V 22M RSS(5X7)	
C745	61617-404-220	C-ELEC;CEAP 16V 22M RSS(5X7)	
C746	61617-404-100	C-ELEC;CEAP 16V 10M RSS(4X7)	
C747	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C748	A1100-0017	C-CERAMIC;CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
C749	A1100-0062	C-CERAMIC;CHIP;CC 73 C0G 50V T 221-J C2012 21C 221	
C750	B1102-0126	C-FILM;CO 982 P 100V T 682-J -40/85 EC0B1682JF3	
C751	61507-121-371	C-POLYESTER;C0921M TAPG 50V 182-J	
C752	61507-121-471	C-POLYESTER;C0921M TAPG 50V 103-J	
C753	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C754	61637-205-470	C-ELEC;CEAP 25V 47M SA(6X11)	
C755	61617-405-479	C-ELEC;CEAP 25V 4.7M RSS(4X7)	
C756	61617-405-479	C-ELEC;CEAP 25V 4.7M RSS(4X7)	
C757	61617-405-479	C-ELEC;CEAP 25V 4.7M RSS(4X7)	
C758	61617-405-479	C-ELEC;CEAP 25V 4.7M RSS(4X7)	
C759	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C760	61617-405-470	C-ELECTROLYTIC;CE04W TAPG 25V 47M(RSS 6.3X7)	
C761	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C762	A1100-0072	C-CERAMIC;CHIP;CK 73 X7R 50V T 392-K C2012 21B 392	
C763	A1100-0044	C-CERAMIC;CHIP;CK 73 X7R 50V T 223-K C2012 21B223K	
C764	A1100-0011	C-CERAMIC;CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
C765	61407-117-104	C-CERAMIC;AXIAL;CAX Y TAPG 16V 103N-T	
C766	A1100-0068	C-CERAMIC;CHIP;CC 73 C0G 50V T 331-J C2012 21C331J	
C767	A1100-0068	C-CERAMIC;CHIP;CC 73 C0G 50V T 331-J C2012 21C331J	
C768	A1100-0068	C-CERAMIC;CHIP;CC 73 C0G 50V T 331-J C2012 21C331J	
C769	A1100-0472	C-CERAMIC;CK CA B 50V T 331-K CAX B TAPG 50V 331-K	
C790	A1100-0009	C-CERAMIC;CHIP;CC 73 C0G 50V T 101-J C2012 21C101J	
CN701	A6010-0410	CONNECTOR-WAFER;GC200-7P-LS WHT	
CN702	A6010-0365	CONNECTOR-WAFER;GC200-15PLS/YFAM200-15 WHT	
CN703	63054-307-170	FLAT CABLE;2760 #26 2.0C-7P-170mm	
D701	62169-406-482	DIODE;1N4148 SAMSUNG	
D702	62169-406-482	DIODE;1N4148 SAMSUNG	
IC701	B4008-0994	IC;AN3963NFBPA OFF HIFI	
IC702	B4008-0699	IC;BA7755A SIP	
IC703	B4012-0125	IC-LINEAR;BA6138 SIP	
L701	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L702	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L703	62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K	
L704	62427-813-153	COIL-PEAKING;EL0607RA 15mH-J	
L705	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	
L707	62427-812-101	COIL-PEAKING;EL0606RA 100uH-J	
L708	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
L709	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
L710	62427-020-330	COIL PEAKING.AXIAL;LAL02TB 330J TAPG	
L711	62427-020-330	COIL PEAKING.AXIAL;LAL02TB 330J TAPG	
L712	62427-020-330	COIL PEAKING.AXIAL;LAL02TB 330J TAPG	
L713	62427-020-330	COIL PEAKING.AXIAL;LAL02TB 330J TAPG	
Q701	62129-101-173	TRANSISTOR;CHIP;KSR 1104(REEL)	
Q702	62129-101-173	TRANSISTOR;CHIP;KSR 1104(REEL)	
Q703	A4050-0001	TR-GENERAL;2SD1468SQ 300MW 0.5MA 150MHZ 30V SI/NPN	
Q704	A4050-0001	TR-GENERAL;2SD1468SQ 300MW 0.5MA 150MHZ 30V SI/NPN	
Q705	62129-101-173	TRANSISTOR;CHIP;KSR 1104(REEL)	
Q706	62129-101-140	TRANSISTOR;CHIP;KSR 2104(REEL)	
Q707	A4050-0001	TR-GENERAL;2SD1468SQ 300MW 0.5MA 150MHZ 30V SI/NPN	
Q708	62147-401-835	TRANSISTOR;KSA 928A-Y TAPG	
Q709	62129-101-173	TRANSISTOR;CHIP;KSR 1104(REEL)	

Loca.No	Part No	Description & Specification	Remark
Q710	62137-702-020	TRANSISTOR;KSC 1008-Y TAPG	
Q711	62129-101-173	TRANSISTOR;CHIP;KSR 1104(REEL)	
Q712	62129-101-173	TRANSISTOR;CHIP;KSR 1104(REEL)	
R701	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R702	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R703	61079-917-393	R-CHIP;RH C2012 CS 393-J	
R704	61079-917-393	R-CHIP;RH C2012 CS 393-J	
R707	61079-917-511	R-CHIP;RH C2012 CS 511-J	
R708	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R709	61079-917-123	R-CHIP;RH C2012 CS 123-J	
R710	61079-917-392	R-CHIP;RH C2012 CS 392-J	
R711	61048-177-153	R-CARBON;RD 1/8 T 153-J	
R712	61048-177-272	R-CARBON;RD 1/8 T 272-J	
R713	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R714	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R715	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R716	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R717	61079-917-394	R-CHIP;RH C2012 CS 394-J	
R718	61079-917-821	R-CHIP;RH C2012 CS 821-J	
R719	61048-177-123	R-CARBON;RD 1/8 T 123-J	
R720	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R721	61079-917-392	R-CHIP;RH C2012 CS 392-J	
R722	61079-917-123	R-CHIP;RH C2012 CS 123-J	
R723	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R724	61079-917-511	R-CHIP;RH C2012 CS 511-J	
R725	61079-917-105	R-CHIP;RH C2012 CS 105-J	
R727	61079-917-393	R-CHIP;RH C2012 CS 393-J	
R728	61079-917-393	R-CHIP;RH C2012 CS 393-J	
R729	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R730	61079-917-273	R-CHIP;RH C2012 CS 273-J	
R731	61079-917-392	R-CHIP;RH C2012 CS 392-J	
R732	61079-917-562	R-CHIP;RH C2012 CS 562-J	
R733	61079-917-274	R-CHIP;RH C2012 CS 274-J	
R734	61079-917-331	R-CHIP;RH C2012 CS 331-J	
R739	61048-177-182	R-CARBON;RD 1/8 T 182-J	
R740	61079-917-511	R-CHIP;RH C2012 CS 511-J	
R741	61048-177-102	R-CARBON;RD 1/8 T 102-J	
R742	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R743	61079-917-473	R-CHIP;RH C2012 CS 473-J	
R744	61079-917-333	R-CHIP;RH C2012 CS 333-J	
R745	61048-177-153	R-CARBON;RD 1/8 T 153-J	
R746	61079-917-473	R-CHIP;RH C2012 CS 473-J	
R747	61079-917-221	R-CHIP;RH C2012 CS 221-J	
R748	61048-177-391	R-CARBON;RD 1/8 T 391-J	
R749	61048-177-331	R-CARBON;RD 1/8 T 331-J	
R750	61079-917-221	R-CHIP;RH C2012 CS 221-J	
R751	61079-917-473	R-CHIP;RH C2012 CS 473-J	
R752	61079-917-432	R-CHIP;RH C2012 CS 432-J	
R753	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R754	61079-917-563	R-CHIP;RH C2012 CS 563-J	
R756	61079-917-473	R-CHIP;RH C2012 CS 473-J	
R757	61079-917-478	R-CHIP;RH C2012 CS 477-J	
R758	61079-917-104	R-CHIP;RH C2012 CS 104-J	
R759	61079-917-472	R-CHIP;RH C2012 CS 472-J	
R760	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R761	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R762	61079-917-334	R-CHIP;RH C2012 CS 334-J	
R763	61079-917-334	R-CHIP;RH C2012 CS 334-J	
R764	61079-917-103	R-CHIP;RH C2012 CS 103-J	
R765	61079-917-102	R-CHIP;RH C2012 CS 102-J	
R766	61079-917-473	R-CHIP;RH C2012 CS 473-J	
R767	61079-917-221	R-CHIP;RH C2012 CS 221-J	
R768	61079-917-221	R-CHIP;RH C2012 CS 221-J	
R769	61079-917-473	R-CHIP;RH C2012 CS 473-J	

Loca No	Part No	Description & Specification	Remark
R770	61048-177-472	R-CARBON;PD 1/8 T 472-J	
R772	61079-917-361	R-CHIP;RH C2012 CS 361-J	
R773	61079-917-152	R-CHIP;RH C2012 CS 152-J	
R774	61079-917-223	R-CHIP;RH C2012 CS 223-J	
R775	61048-177-223	R-CARBON;PD 1/8 T 223-J	
R776	61079-917-472	R-CHIP;RH C2012 CS 472-J	
T701	62429-014-109	COIL BIAS OSC;B01 70KHZ B(TOKO)VX1850	
VR702	B1054-0197	VR-SEMI;EWN-DCAA03-B13 4.7KB CARBON TAPG	
VR704	B1054-0197	VR-SEMI;EWN-DCAA03-B13 4.7KB CARBON TAPG	
VR705	61247-102-104	VR-SEMI;EWN-DCA A03 B15 TAPG 100KB	
900		ASSY SUB;SV-300W DIGITAL CONVERSION BLOCK	
	69300-301-206	SV-300W/SEUK, SEG, SEF, SEI, AND, TSE, ZAMA, SEJ	
	69300-301-207	SV-300W/SEA	
901		ASSY ANALOG	
	69329-302-203	SV-300W/SEUK, SEG, SEF, SEI, AND, TSE, ZAMA, SEJ	
	69329-302-207	SV-300W/SEA	
NT-PAL ENCODER PARTS			
CA100	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA101	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CA102	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CA103	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CA104	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CA105	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA106	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA107	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA108	A1100-0059	C-CERAMIC,CHIP;CC 73 COG 50V T 180-J C2012	
CA109	A1100-0061	C-CERAMIC,CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
CA147	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA150	A1100-0041	C-CERAMIC,CHIP;CC 73 COG 50V T 181-J C2012 CL21C18	
CA151	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA152	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA153	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA155	A1100-0059	C-CERAMIC,CHIP;CC 73 COG 50V T 180-J C2012	
CA67	A1100-0061	C-CERAMIC,CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
CA69	A1100-0067	C-CERAMIC,CHIP;CC 73 COG 50V T 330-J C2012 21C 330	
CA70	A1100-0053	C-CERAMIC,CHIP;CC 73 COG 50V T 390-J C2012 21C 390	
CA71	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA72	61453-130-041	C-CERAMIC,CHIP;C3216 Y5V1C 474Z	
CA73	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA74	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA78	A1100-0080	C-CERAMIC,CHIP;CC 73 COG 50V T 820-J C2012 21C 820	
CA79	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA80	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA81	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA82	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA83	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA84	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA85	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA86	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA87	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA88	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA89	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA90	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA91	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA92	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA93	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA94	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA95	61454-243-101	C-ELEC,CHIP;ECE-V0JA101P	
CA96	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA97	A1100-0009	C-CERAMIC,CHIP;CC 73 COG 50V T 101-J C2012 21C101J	
CA98	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CA99	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
QNA4	B6013-0069	CONNECTOR-FPC;S2045-3210 WHT	
DA2	62169-901-074	DICDE,CHIP;WA151WK-(TX)	

Loca No	Part No	Description & Specification	Remark
FLA1	A1240-0100	FILTER-LC;LP 1.2M CLP216	
FLA2	A1240-0100	FILTER-LC;LP 1.2M CLP216	
FLA3	A1240-0101	FILTER-LC;BP 4.43M CB0073	
FLA4	A1240-0102	FILTER-LC;BP 3.58M CB0074	
FLA9	A1240-0103	FILTER-LC;LP 4M CLP215	
ICA10	62119-701-127	IC-FP;NUM 2234M(TE1)	
ICA11	62119-701-127	IC-FP;NUM 2234M(TE1)	
ICA12	B4008-0879	IC;CXA1219M SOP REEL	
ICA13	B4004-0268	IC-LOGIC;TC4W53FU SSOP	
ICA14	62119-701-127	IC-FP;NUM 2234M(TE1)	
ICA17	62119-701-126	IC-FP;NUM 2235M(TE1)	
ICA9	B4008-1138	IC;NUM2265M(T1) SOP 8P	
LA10	B1160-0031	INDUCTOR,CHIP;22UH-J 73 NL252018T-220J C2520	
LA13	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
LA14	62429-962-680	INDUCTOR CHIP;NL322522T 68-J	
LA15	62429-962-470	INDUCTOR-CHIP;NL322522T 470-J	
LA6	B1160-0031	INDUCTOR,CHIP;22UH-J 73 NL252018T-220J C2520	
LA7	B1160-0031	INDUCTOR,CHIP;22UH-J 73 NL252018T-220J C2520	
QA13	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA14	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA15	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA16	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA17	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA18	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA19	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA20	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA21	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA22	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA23	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA24	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA25	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA26	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA27	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA28	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA29	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA30	62129-101-140	TRANSISTOR,CHIP;KSR 2104(REEL)	
QA31	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA32	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA33	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
RA100	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA101	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA102	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA103	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA104	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA105	61079-917-561	R-CHIP;RH C2012 CS 561-J	
RA106	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA107	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA108	61079-917-273	R-CHIP;RH C2012 CS 273-J	
RA109	61079-917-100	R-CHIP;RH C2012 CS 100-J	
RA110	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA111	61079-917-112	R-CHIP;RH C2012 CS 112-J	
RA113	61079-917-112	R-CHIP;RH C2012 CS 112-J	
RA114	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA116	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RA117	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA118	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA143	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RA144	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RA146	61079-917-220	R-CHIP;RH C2012 CS 220-J	
RA63	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RA64	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA65	61079-917-431	R-CHIP;RH C2012 CS 431-J	
RA66	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA67	61079-917-102	R-CHIP;RH C2012 CS 102-J	

Loca.No	Part.No	Description & Specification	Remark
RA68	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RA69	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA70	61079-917-431	R-CHIP;RH C2012 CS 431-J	
RA71	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA72	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA73	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA74	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA75	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA76	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA77	61079-917-391	R-CHIP;RH C2012 CS 391-J	
RA78	61079-917-751	R-CHIP;RH C2012 CS 751-J	
RA79	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA80	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA81	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA82	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA83	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA84	61079-917-821	R-CHIP;RH C2012 CS 821-J	
RA85	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA86	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA87	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RA89	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA90	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA91	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA92	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA93	61079-917-561	R-CHIP;RH C2012 CS 561-J	
RA94	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA95	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA96	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RA98	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA99	61079-917-302	R-CHIP;RH C2012 CS 302-J	
VRA10	B1056-0021	VR-SEMI CHIP;EWMSSX50BE3 2.2KB CERMET	
VRA8	B1056-0045	VR-SEMI CHIP;EWMSSX50B14 10KB CERMET	
VRA9	B1056-0021	VR-SEMI CHIP;EWMSSX50BE3 2.2KB CERMET	
SECAM ENCODER PARTS			
CA111	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA112	61454-244-471	C-ELEC,CHIP;ECE-VICA470P	
CA113	A1100-0067	C-CERAMIC,CHIP;CC 73 C0G 50V T 330-J C2012 21C 330	
CA114	A1100-0059	C-CERAMIC,CHIP;CC 73 C0G 50V T 180-J C2012	
CA115	61454-245-947	C-ELEC,CHIP;ECE-VIHAR47R	
CA116	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA117	A1100-0044	C-CERAMIC,CHIP;CK 73 X7R 50V T 223-K C2012 21B223K	
CA118	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
CA119	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
CA121	61619-908-479	C-ELEC,CHIP;UMX1C4R7 MCR2GB P13 4.7U/25V	
CA122	A1100-0143	C-CERAMIC,CHIP;CK 73 Y5V 50V T 334-Z C3216 CL31F33	
CA123	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
CA124	A1100-0143	C-CERAMIC,CHIP;CK 73 Y5V 50V T 334-Z C3216 CL31F33	
CA125	61619-908-479	C-ELEC,CHIP;UMX1C4R7 MCR2GB P13 4.7U/25V	
CA126	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA127	61454-244-471	C-ELEC,CHIP;ECE-VICA470P	
CA128	A1100-0041	C-CERAMIC,CHIP;CC 73 C0G 50V T 181-J C2012 CL21C18	
CA129	61454-243-101	C-ELEC,CHIP;ECE-V0JA101P	
CA130	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA131	61454-245-947	C-ELEC,CHIP;ECE-VIHAR47R	
CA132	61453-130-041	C-CERAMIC,CHIP;C3216 Y5V1C 474Z	
CA133	61453-130-041	C-CERAMIC,CHIP;C3216 Y5V1C 474Z	
CA134	A1100-0072	C-CERAMIC,CHIP;CK 73 X7R 50V T 392-K C2012 21B 392	
CA135	A1100-0046	C-CERAMIC,CHIP;CK 73 Y5V 50V T 224-Z C3216 31F 224	
	A1100-0046	C-CERAMIC,CHIP;CK 73 Y5V 50V T 224-Z C3216 31F 224	
CA131	A1100-0046	C-CERAMIC,CHIP;CK 73 Y5V 50V T 224-Z C3216 31F 224	
CA138	A1100-0046	C-CERAMIC,CHIP;CK 73 Y5V 50V T 224-Z C3216 31F 224	
CA139	A1100-0041	C-CERAMIC,CHIP;CC 73 C0G 50V T 181-J C2012 CL21C18	
CA140	61454-245-947	C-ELEC,CHIP;ECE-VIHAR47R	
FLA10	A1240-0105	FILTER-LC;BPF 4.25MHZ 7M3	

Loca.No	Part.No	Description & Specification	Remark
FLA5	A1240-0107	FILTER-LC;BPF 4.3MHZ 14F1	
FLA6	A1142-0011	COIL-BOBBIN;7.5X7.5MM 225T 1.52MH AJ 4MM 2UEW 7SM-H	
FLA7	A1142-0012	COIL-BOBBIN;7.5X7.5MM 176T 0.5MH AJ 4MM 2UEW 7SM-H	
FLA8	A1240-0106	FILTER-LC;BPF 2.1MHZ 5CA	
ICA15	B4012-0332	IC-LINEAR;TDA2507(R) SOP FM MODULATOR CONTROLLER	
ICA16	B4012-0331	IC-LINEAR;TDA2506(R) SOP SECAM ENCODER	
LA11	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
LA12	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
QA34	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA35	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
RA119	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA120	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA121	61079-917-113	R-CHIP;RH C2012 CS 113-J	
RA122	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA123	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA124	61079-917-152	R-CHIP;RH C2012 CS 152-J	
RA125	61079-917-822	R-CHIP;RH C2012 CS 822-J	
RA126	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA127	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA128	61079-917-338	R-CHIP;RH C2012 CS 330-J	
RA129	61079-917-338	R-CHIP;RH C2012 CS 330-J	
RA130	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RA131	61079-917-113	R-CHIP;RH C2012 CS 113-J	
RA132	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA133	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RA134	61079-917-153	R-CHIP;RH C2012 CS 153-J	
RA135	61079-917-569	R-CHIP;RH C2012 CS 560-J	
RA136	61079-917-103	R-CHIP;RH C2012 CS 103-J	
DECODER PARTS			
CA1	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA148	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA156	A1100-0050	C-CERAMIC,CHIP;CK 73 X7R 50V T 332-K C2012 C2012X7	
CA157	61454-155-183	C-CERAMIC,CHIP;C1608 B1H 183T-K	
CA2	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA29	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA3	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA30	61454-243-101	C-ELEC,CHIP;ECE-V0JA101P	
CA31	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA32	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA33	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
CA34	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
CA4	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA40	A1100-0062	C-CERAMIC,CHIP;CC 73 C0G 50V T 221-J C2012 21C 221	
CA41	A1100-0062	C-CERAMIC,CHIP;CC 73 C0G 50V T 221-J C2012 21C 221	
CA42	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA43	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA44	A1100-0037	C-CERAMIC,CHIP;CC 73 C0G 50V T 150-J C2012 21C 150	
CA45	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
CA46	A1100-0036	C-CERAMIC,CHIP;CC 73 C0G 50V T 121-J C2012	
CA47	A1100-0038	C-CERAMIC,CHIP;CC 73 C0G 50V T 151-J C2012 21C151J	
CA48	A1100-0037	C-CERAMIC,CHIP;CC 73 C0G 50V T 150-J C2012 21C 150	
CA49	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CA50	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CA51	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA52	61617-404-101	C-ELEC;CEAP 16V 100M RSS(6.3K7)	
CA53	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA54	B1104-0235	C-ELEC,CHIP;CE 04 W 50V T 101-J A ECE-VIHAS010R	
CA55	A1100-0046	C-CERAMIC,CHIP;CK 73 Y5V 50V T 224-Z C3216 31F 224	
CA56	A1100-0020	C-CERAMIC,CHIP;CK 73 X7R 50V T 472-K C2012 21B 472	
CA57	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA58	A1100-0044	C-CERAMIC,CHIP;CK 73 X7R 50V T 223-K C2012 21B223K	
CA59	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
CA6	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA60	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	

Loca.No	Part No	Description & Specification	Remark
CA61	61453-134-100	C-CERAMIC CHIP;0805SA 100F	
CA62	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
CA63	61453-134-100	C-CERAMIC CHIP;0805SA 100F	
CA64	A1100-0013	C-CERAMIC,CHIP;CK 73 X7R 50V T 102-J C2012 21B 102	
CA68	A1100-0067	C-CERAMIC,CHIP;CC 73 COG 50V T 330-J C2012 21C 330	
CA7	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
QVA3	B6010-1047	CONNECTOR-WAFER;52045-1210 WIT MOLEX	
DA1	62169-901-074	DIODE,CHIP;MA151WK-(TX)	
DA3	62169-901-074	DIODE,CHIP;MA151WK-(TX)	
ICA4	B4012-0333	IC-LINEAR;TDA4665 DIP	
ICA8	B4012-0330	IC-LINEAR;TDA4650 DIP COLOR DECODER(PAL,SECAM,NTSC	
LA4	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
LA5	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
QA1	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA10	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA11	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA12	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA2	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA3	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA37	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA38	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA39	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA4	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA40	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA5	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA6	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QA7	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
RA1	61079-917-331	R-CHIP;RH C2012 CS 331-J	
RA10	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA11	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA12	61079-917-393	R-CHIP;RH C2012 CS 393-J	
RA13	61079-917-123	R-CHIP;RH C2012 CS 123-J	
RA14	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA141	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA142	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA145	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA148	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA149	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA15	61079-917-152	R-CHIP;RH C2012 CS 152-J	
RA150	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RA16	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA17	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA18	61079-917-393	R-CHIP;RH C2012 CS 393-J	
RA19	61079-917-123	R-CHIP;RH C2012 CS 123-J	
RA2	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA20	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA21	61079-917-152	R-CHIP;RH C2012 CS 152-J	
RA22	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA23	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA3	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA4	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RA44	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA45	61079-917-123	R-CHIP;RH C2012 CS 123-J	
RA54	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RA55	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RA56	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA57	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RA58	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RA59	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RA6	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RA60	61079-917-332	R-CHIP;RH C2012 CS 332-J	
RA61	61079-917-183	R-CHIP;RH C2012 CS 183-J	
RA62	61079-917-104	R-CHIP;RH C2012 CS 104-J	
RA7	61079-917-222	R-CHIP;RH C2012 CS 222-J	

Loca.No	Part No	Description & Specification	Remark
RA8	61079-917-122	R-CHIP;RH C2012 CS 122-J	
RA9	61079-917-822	R-CHIP;RH C2012 CS 822-J	
VCA1	61829-302-292	C-TRIMMER;ECR-HA020041	
VCA2	61829-302-292	C-TRIMMER;ECR-HA020041	
VCA3	61829-302-292	C-TRIMMER;ECR-HA020041	
VCA4	61829-302-292	C-TRIMMER;ECR-HA020041	
VLA1	A1142-0010	COIL-BOBBIN;7.5X7.5MM 23T 11.7UH AX 4MM 2UEW	
VR1	B1056-0044	VR-SEMI CHIP;EVM1SSX50B13 1KB CERMET	
VR2	B1056-0021	VR-SEMI CHIP;EVM1SSX50B3 2.2KB CERMET	
VR3	B1056-0021	VR-SEMI CHIP;EVM1SSX50B3 2.2KB CERMET	
VR6	B1056-0045	VR-SEMI CHIP;EVM1SSX50B14 10KB CERMET	
VR7	B1056-0044	VR-SEMI CHIP;EVM1SSX50B13 1KB CERMET	
XA1	A1280-0163	CRYSTAL;7.164112MHZ HC-49/U-A 20PPM	
XA2	A1280-0162	CRYSTAL;7.15122MHZ HC-49/U-A 20PPM	
XA3	64539-012-130	CRYSTAL;8.8672MHZ	
XA4	A1280-0126	CRYSTAL;7.15909MHZ HC-49/U-A 50PPM	
AUTO DETECTOR PARTS			
CA209	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA210	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA211	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA212	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA213	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CWA201	63349-604-200	CONNECTOR WAFER;53014-1010	
DA202	62169-901-074	DIODE,CHIP;MA151WK-(TX)	
DA203	62169-901-074	DIODE,CHIP;MA151WK-(TX)	
ICA202	A4004-0345	IC-LOGIC;GD74HC00D SOP REEL	
ICA203	A4004-0309	IC-LOGIC;GD4021BD SOP TAPING	
ICA204	62119-701-095	IC-PP;NJU74HC02M(T1)	
ICA205	62119-701-096	IC-PP;NJU74HC08M(T1)	
ICA206	A4004-0345	IC-LOGIC;GD74HC00D SOP REEL	
QA203	62129-101-140	TRANSISTOR,CHIP;KSR 2104(REEL)	
QA204	B4060-0041	TR-W/RESISTOR;IMH5A 300MW 100MA 50V EBN T R1 22K	
QA205	B4060-0042	TR-W/RESISTOR;IMD3A 300MW 100MA 50V EBN T R1 10K	
QA206	B4060-0042	TR-W/RESISTOR;IMD3A 300MW 100MA 50V EBN T R1 10K	
QA207	B4060-0041	TR-W/RESISTOR;IMH5A 300MW 100MA 50V EBN T R1 22K	
QA208	B4060-0042	TR-W/RESISTOR;IMD3A 300MW 100MA 50V EBN T R1 10K	
QA209	B4060-0042	TR-W/RESISTOR;IMD3A 300MW 100MA 50V EBN T R1 10K	
RA212	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA213	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA214	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA215	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA216	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA217	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RA218	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA219	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA220	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RA221	61079-917-201	R-CHIP;RH C2012 CS 201-J	
SYNC SEPARATOR PARTS			
CA10	A1100-0062	C-CERAMIC,CHIP;CC 73 COG 50V T 221-J C2012 21C 221	
CA11	A1100-0113	C-CERAMIC,CHIP;CC 73 COG 50V T 471-J C2012 21C 471	
CA12	A1100-0068	C-CERAMIC,CHIP;CC 73 COG 50V T 331-J C2012 21C331J	
CA120	A1100-0038	C-CERAMIC,CHIP;CC 73 COG 50V T 151-J C2012 21C151J	
CA13	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA14	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA141	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA142	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA143	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA144	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA145	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA146	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CA15	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA154	A1100-0068	C-CERAMIC,CHIP;CC 73 COG 50V T 331-J C2012 21C331J	
CA160	A1100-0036	C-CERAMIC,CHIP;CC 73 COG 50V T 121-J C2012	
CA18	A1100-0036	C-CERAMIC,CHIP;CC 73 COG 50V T 121-J C2012	

Loca.No	Part No	Description & Specification	Remark
CA19	B1104-0235	C-ELEC,CHIP;CE 04 W 50V T 101-J A ECE-VTHAS010R	
CA20	61454-243-220	C-ELEC,CHIP;ECE-VICA220P	
CA21	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA22	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA23	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA24	61617-404-101	C-ELEC;CEAP 16V 100M RSS(6.3X7)	
CA25	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA26	A1100-0047	C-CERAMIC,CHIP;CK 73 X7R 50V T 272-K C2012 21B 272	
CA27	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA28	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA35	61619-910-339	C-ELEC,CHIP;UMX1V3R3 MCR2GB P13 3.3U/35V	
CA37	A1100-0067	C-CERAMIC,CHIP;CC 73 COG 50V T 330-J C2012 21C 330	
CA38	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CA39	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CA8	A1100-0062	C-CERAMIC,CHIP;CC 73 COG 50V T 221-J C2012 21C 221	
CA9	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CNA1	63349-604-140	CONNECTOR WAFER;53014-0410	
CNA2	B6010-1046	CONNECTOR WAFER;52045-2510 WHT MOLEX	
ICA1	B4004-0100	IC-LOGIC;TC/HD74HC4538AFN SOP	
ICA2	B4004-0100	IC-LOGIC;TC/HD74HC4538AFN SOP	
ICA3	B4012-0329	IC-LINEAR;TDA2579B DIP	
ICA5	B4008-1011	IC-VOLT REGU;PO12RF11 SIP 4-LEAD	
ICA6	B4008-1111	IC-VOLG REGU;PO05RF11 SIP	
ICA7	62119-103-648	IC;LA7213	
LA1	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
LA2	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
QA41	B4060-0041	TR-W/RESISTOR;1W/5A 300MW 100MA 50V EBN T R1 22K	
QA42	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QA8	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QA9	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
RA112	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA136	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA139	61079-917-220	R-CHIP;RH C2012 CS 220-J	
RA147	61079-917-105	R-CHIP;RH C2012 CS 105-J	
RA151	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA153	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA155	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA24	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA25	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RA26	61079-917-392	R-CHIP;RH C2012 CS 392-J	
RA27	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RA28	61079-917-682	R-CHIP;RH C2012 CS 682-J	
RA29	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RA30	61079-917-123	R-CHIP;RH C2012 CS 123-J	
RA31	61079-917-562	R-CHIP;RH C2012 CS 562-J	
RA32	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA33	61079-917-224	R-CHIP;RH C2012 CS 224-J	
RA34	61079-917-823	R-CHIP;RH C2012 CS 823-J	
RA35	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RA36	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RA37	61079-917-562	R-CHIP;RH C2012 CS 562-J	
RA38	61079-917-122	R-CHIP;RH C2012 CS 122-J	
RA39	61079-917-682	R-CHIP;RH C2012 CS 682-J	
RA40	61079-917-562	R-CHIP;RH C2012 CS 562-J	
RA41	61079-917-123	R-CHIP;RH C2012 CS 123-J	
RA42	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RA43	61079-917-391	R-CHIP;RH C2012 CS 391-J	
RA46	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA48	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA49	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RA50	61079-917-224	R-CHIP;RH C2012 CS 224-J	
RA51	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RA52	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RA53	61079-917-102	R-CHIP;RH C2012 CS 102-J	

Loca.No	Part No	Description & Specification	Remark
VR44	B1056-0045	VR-SEMI CHIP;EMISSX50B14 10KB CERMET	
VR45	B1056-0045	VR-SEMI CHIP;EMISSX50B14 10KB CERMET	
902	69329-302-204 69329-302-206	ASSY DIGITAL SV-300W/SEUK, SEG, SEF, SEI, AND, TSE, ZAMA, SEJ SV-300W/SEA	
DIGITAL 1 PARTS			
CD47	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CD48	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD49	61454-243-101	C-ELEC,CHIP;ECE-V0JA101P	
CD50	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD51	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD52	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CD53	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD55	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD56	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD57	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD59	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD60	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
CD61	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD62	61454-243-101	C-ELEC,CHIP;ECE-V0JA101P	
CD63	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD64	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD67	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
CD68	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
DB111	A1160-0016	INDUCTOR;70UH-M RT BFS356SR2F	
ICD10	A4006-0028	IC-ASIC;SV9201DD OFF SST	
ICD11	A4000-0015	IC-MEMORY;KM424C256 SIP	
ICD12	A4000-0015	IC-MEMORY;KM424C256 SIP	
ICD13	A4000-0015	IC-MEMORY;KM424C256 SIP	
ICD14	A4000-0015	IC-MEMORY;KM424C256 SIP	
ICD9	B4008-0115	IC;MB4097B DIP PLASTIC	
LD8	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
OD10	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
OD7	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
OD8	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
OD9	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
RD57	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RD58	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RD59	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD60	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RD61	61079-917-102	R-CHIP;RH C2012 CS 102-J	
VR02	B1056-0044	VR-SEMI CHIP;EMISSX50B13 1KB CERMET	
DIGITAL 2 PARTS			
OD1	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD10	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD100	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD101	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD11	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
OD12	A1100-0037	C-CERAMIC,CHIP;CC 73 COG 50V T 150-J C2012 21C 150	
OD13	A1100-0061	C-CERAMIC,CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
OD14	A1100-0037	C-CERAMIC,CHIP;CC 73 COG 50V T 150-J C2012 21C 150	
OD15	A1100-0061	C-CERAMIC,CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
OD16	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD18	61453-134-100	C-CERAMIC CHIP;08055A 100F	
OD19	61453-134-100	C-CERAMIC CHIP;08055A 100F	
OD2	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD20	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD21	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
OD22	A1100-0059	C-CERAMIC,CHIP;CC 73 COG 50V T 180-J C2012	
OD23	A1100-0004	C-CERAMIC,CHIP;CC 73 COG 50V T 560-J C2012 21C560J	
OD24	A1100-0059	C-CERAMIC,CHIP;CC 73 COG 50V T 180-J C2012	
OD25	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-VICAS100R	
OD26	A1100-0017	C-CERAMIC,CHIP;CK 73 ZSU 50V T 104-Z C2012 21F104Z	
OD27	61619-906-479	C-ELEC,CHIP;UMX1C4R7 MCR2GB P13 4.7UJ25V	

Loca.No	Part No	Description & Specification	Remark
CD28	61454-244-471	C-ELEC.CHIP;ECE-V1CA70P	
CD29	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD3	61454-243-101	C-ELEC.CHIP;ECE-V0JA101P	
CD30	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD31	B1104-0234	C-ELEC.CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CD32	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD33	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD34	B1104-0234	C-ELEC.CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CD35	61619-908-479	C-ELEC.CHIP;UMK1C4R7 MCR2GB P13 4.7U/25V	
CD36	61619-908-479	C-ELEC.CHIP;UMK1C4R7 MCR2GB P13 4.7U/25V	
CD37	B1104-0234	C-ELEC.CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CD38	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD39	61454-244-471	C-ELEC.CHIP;ECE-V1CA70P	
CD4	61454-243-101	C-ELEC.CHIP;ECE-V0JA101P	
CD40	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD41	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD42	B1104-0234	C-ELEC.CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CD43	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD44	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD45	B1104-0234	C-ELEC.CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CD46	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD5	A1100-0017	C-CERAMIC.CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CD6	A1100-0037	C-CERAMIC.CHIP;CC 73 COG 50V T 150-J C2012 21C 150	
CD7	A1100-0061	C-CERAMIC.CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
CD70	B1104-0234	C-ELEC.CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CD8	A1100-0037	C-CERAMIC.CHIP;CC 73 COG 50V T 150-J C2012 21C 150	
CD9	A1100-0061	C-CERAMIC.CHIP;CC 73 COG 50V T 220-J C2012 21C220J	
OND1	63053-212-115	LEAD CONNECTOR ASSY;1429 #26 150um/m 51004-5295 12P	
OND2	B6013-0069	CONNECTOR-FPC;S2045-3210 WHT	
OND3	B6010-1047	CONNECTOR-WAFER;S2045-1210 WHT MOLEX	
DB110	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB112	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB113	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB114	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB13	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB14	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB15	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB17	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB18	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DB19	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
DD1	62169-901-074	DIODE.CHIP;MA151NK-(TX)	
DD100	62169-901-074	DIODE.CHIP;MA151NK-(TX)	
DD2	B4104-0046	DIODE-RECT;1N4002GP 100V 1A	
ED1	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED2	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED22	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED23	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED24	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED25	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED26	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED27	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED28	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED29	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED3	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED30	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED31	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED32	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED33	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED34	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED35	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED36	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED37	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED38	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED39	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	

Loca.No	Part No	Description & Specification	Remark
ED4	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED40	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED41	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
ED42	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED43	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED44	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED5	B1248-0003	FILTER-EMI.CHIP;NFM0R01C101T1 100PF +50-20% T 25V	
ED62	B1248-0009	FILTER-EMI.CHIP;NFM0R11C223T1 0.022UF Z T 25V C32	
FBD1	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
FBD2	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
ICD1	B4008-1111	IC-VOLG REGU;P005FF11 SIP	
ICD100	B4004-0100	IC-LOGIC;TC1HD74HC4538AFN SOP	
ICD15	B4004-0268	IC-LOGIC;TC4W53FU SSOP	
ICD2	A4004-0345	IC-LOGIC;GD74HC00D SOP REEL	
ICD3	A4004-0345	IC-LOGIC;GD74HC00D SOP REEL	
ICD4	A4004-0345	IC-LOGIC;GD74HC00D SOP REEL	
ICD5	62119-701-086	IC-PP;NUJ 74HC 4066M(T2)	
ICD6	B4008-0877	IC;CXD1175AM SOP	
ICD7	62119-701-086	IC-PP;NUJ 74HC 4066M(T2)	
ICD8	B4008-0877	IC;CXD1175AM SOP	
LD1	62429-962-470	INDUCTOR-CHIP;NL322522T 470-J	
LD2	62429-962-470	INDUCTOR-CHIP;NL322522T 470-J	
LD4	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
LD7	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC322522T-101K C3225	
QD1	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)	
QD2	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)	
QD3	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)	
QD4	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)	
QD5	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)	
QD6	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)	
RD100	61079-917-473	R-CHIP;RH C2012 CS 473-J	
RD102	61079-917-154	R-CHIP;RH C2012 CS 154-J	
RD11	61079-917-105	R-CHIP;RH C2012 CS 105-J	
RD12	61079-917-105	R-CHIP;RH C2012 CS 105-J	
RD13	61079-917-331	R-CHIP;RH C2012 CS 331-J	
RD16	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RD17	61079-917-105	R-CHIP;RH C2012 CS 105-J	
RD18	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD19	61079-917-271	R-CHIP;RH C2012 CS 271-J	
RD20	61079-917-681	R-CHIP;RH C2012 CS 681-J	
RD21	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD45	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RD46	61079-917-561	R-CHIP;RH C2012 CS 561-J	
RD47	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RD48	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RD49	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RD50	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD51	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RD52	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD53	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RD54	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD55	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RD56	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RD63	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD64	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD65	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD66	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RD68	61079-917-000	R-CHIP;RH C2012 CS 000-J	
RD7	61079-917-105	R-CHIP;RH C2012 CS 105-J	
RD71	61079-917-000	R-CHIP;RH C2012 CS 000-J	
RD73	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RD74	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RD75	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RD76	61079-917-473	R-CHIP;RH C2012 CS 473-J	

Loca.No	Part No	Description & Specification	Remark
RD77	61079-917-474	R-CHIP;RH C2012 CS 474-J	
RD8	61079-917-105	R-CHIP;RH C2012 CS 105-J	
RD9	61079-917-331	R-CHIP;RH C2012 CS 331-J	
VD01	61829-302-292	C-TRIMMER;EOR-HA020041	
VD02	61829-302-292	C-TRIMMER;EOR-HA020041	
VD03	61829-302-292	C-TRIMMER;EOR-HA020041	
VD04	61829-302-292	C-TRIMMER;EOR-HA020041	
VR01	B1056-0051	VR-SM1 CHIP;EWMSSX50B54 50KB CERMET	
XD1	64539-012-122	CRYSTAL;14.31818MHZ	
XD2	A1280-0159	CRYSTAL;14.302449MHZ HC-49/U-A 20PPM	
XD3	64539-012-543	CRYSTAL;17.734475M(20ppm)	
XD4	A1280-0160	CRYSTAL;14.328225MHZ HC-49/U-A 20PPM	
XD5	A1280-0161	CRYSTAL;26.256MHZ HC-49/U-A 20PPM	
903	69379-302-201	ASSY Y/C SEPARATOR;SV-300W	
CNY1	A6010-0989	CONNECTOR-WAFER;GB200-08S-LS BFN G/S	
CNY2	B6010-1046	CONNECTOR-WAFER;52045-2510 WHT MOLEX	
CNY3	A6010-1045	CONNECTOR-WAFER;GB200-08S-LS BFN G/S	
CY1	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY10	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY12	61454-243-221	C-ELEC,CHIP;ECE-V0JA220R	
CY13	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY14	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY15	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY16	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY17	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY2	61454-243-101	C-ELEC,CHIP;ECE-V0JA101P	
CY201	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY202	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY203	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY204	A1100-0067	C-CERAMIC,CHIP;CC 73 COG 50V T 330-J C2012 21C 330	
CY205	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY206	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY207	B1104-0235	C-ELEC,CHIP;CE 04 W 50V T 101-J A ECE-V1HAS010R	
CY208	B1104-0235	C-ELEC,CHIP;CE 04 W 50V T 101-J A ECE-V1HAS010R	
CY22	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY23	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY24	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY25	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY26	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY28	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY29	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY3	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY33	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY37	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY38	A1100-0113	C-CERAMIC,CHIP;CC 73 COG 50V T 471-J C2012 21C 471	
CY39	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY4	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY40	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY41	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY42	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY43	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY44	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY45	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY46	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY47	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY48	61454-244-471	C-ELEC,CHIP;ECE-V1CA470P	
CY49	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY5	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY51	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY52	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY53	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY54	61454-244-471	C-ELEC,CHIP;ECE-V1CA470P	
CY55	61637-502-471	C-ELEC;CEAP 6.3V 470M 3G(8X11.5)	
CY56	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	

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CY57	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY59	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY6	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY60	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
CY61	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY63	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY64	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY65	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY66	A1100-0017	C-CERAMIC,CHIP;CK 73 Z5U 50V T 104-Z C2012 21F104Z	
CY67	61454-243-220	C-ELEC,CHIP;ECE-V1CA220P	
CY68	A1100-0009	C-CERAMIC,CHIP;CC 73 COG 50V T 101-J C2012 21C101J	
CY7	A1100-0011	C-CERAMIC,CHIP;CK 73 X7R 50V T 103-K C2012 21B103K	
CY9	B1104-0234	C-ELEC,CHIP;CE 03 W 50V T 100-J A ECE-V1CAS100R	
DLY1	A1146-0048	DELAY-LINE;T321ENPN-274PAD 450NS	
DY201	62169-901-074	DIODE,CHIP;MA151WK-(TX)	
FLY1	A1240-0104	FILTER-LC;LP 3.58M CO0006	
FLY2	64529-431-091	FILTER-LC DIP TYPE;CO0003	
FLY3	A1240-0102	FILTER-LC;BP 3.58M CB0074	
FLY4	A1240-0101	FILTER-LC;BP 4.43M CB0073	
ICY1	B4008-1138	IC;NJM2265M(T1) SOP 8P	
ICY2	B4008-1139	IC;NJM2283M(T1) SOP 16P	
ICY201	62119-103-644	IC;LA7311	
ICY3	B4008-1139	IC;NJM2283M(T1) SOP 16P	
ICY4	62119-701-126	IC-FP;NJM 2235M(T1)	
ICY5	B4008-0988	IC-DRIVE;NJM2268M(T1) SOP	
ICY6	62119-701-126	IC-FP;NJM 2235M(T1)	
ICY7	62119-701-127	IC-FP;NJM 2234M(T1)	
LY201	B1160-0010	INDUCTOR-CHIP;100UH-K 73 NLC32522T-101K C3225	
QY1	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QY11	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QY12	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QY2	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QY202	62129-101-080	TRANSISTOR,CHIP;KSA 812-G(REEL)	
QY3	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QY4	62129-101-172	TRANSISTOR,CHIP;KSC 1623G(REEL)	
QY5	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
QY6	62129-101-173	TRANSISTOR,CHIP;KSR 1104(REEL)	
RY1	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RY10	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY11	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RY12	61079-917-153	R-CHIP;RH C2012 CS 153-J	
RY13	61079-917-101	R-CHIP;RH C2012 CS 101-J	
RY14	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RY15	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY16	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RY17	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY18	61079-917-112	R-CHIP;RH C2012 CS 112-J	
RY19	61079-917-432	R-CHIP;RH C2012 CS 432-J	
RY2	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RY20	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY201	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY202	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RY203	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RY204	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RY205	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RY206	61079-917-104	R-CHIP;RH C2012 CS 104-J	
RY207	61079-917-103	R-CHIP;RH C2012 CS 103-J	
RY208	61079-917-332	R-CHIP;RH C2012 CS 332-J	
RY209	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RY21	61079-917-112	R-CHIP;RH C2012 CS 112-J	
RY210	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY211	61079-917-471	R-CHIP;RH C2012 CS 471-J	
RY22	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY23	61079-917-112	R-CHIP;RH C2012 CS 112-J	

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RY3	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RY34	61079-917-220	R-CHIP;RH C2012 CS 220-J	
RY35	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RY39	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY4	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY40	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY41	61079-917-112	R-CHIP;RH C2012 CS 112-J	
RY42	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY43	61079-917-112	R-CHIP;RH C2012 CS 112-J	
RY44	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RY46	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RY47	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RY48	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RY49	61079-917-220	R-CHIP;RH C2012 CS 220-J	
RY5	61079-917-223	R-CHIP;RH C2012 CS 223-J	
RY50	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RY51	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RY52	61079-917-750	R-CHIP;RH C2012 CS 750-J	
RY53	61079-917-220	R-CHIP;RH C2012 CS 220-J	
RY54	61079-917-220	R-CHIP;RH C2012 CS 220-J	
RY56	61079-917-472	R-CHIP;RH C2012 CS 472-J	
RY57	61079-917-391	R-CHIP;RH C2012 CS 391-J	
RY58	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY6	61079-917-333	R-CHIP;RH C2012 CS 333-J	
RY7	61079-917-222	R-CHIP;RH C2012 CS 222-J	
RY8	61079-917-102	R-CHIP;RH C2012 CS 102-J	
RY9	61079-917-222	R-CHIP;RH C2012 CS 222-J	
VL1	A1142-0009	COIL-BOBBIN;7.5X7.5MM 15T 2.7UH AX 6.9MM 2UEW 7MG	
VR201	B1056-0044	VR-SEMI CHIP;EVM1SSX50B13 1KB CERMET	
701	69373-302-240	ASSY TIMER;SV-300W/SEA	
C801	61617-404-470	C-ELEC;CEAP 16V 47M RSS(6.3X7)	
C803	61617-404-470	C-ELEC;CEAP 16V 47M RSS(6.3X7)	
C804	A1100-0472	C-CERAMIC;CK QA B 50V T 331-K CAX B TAPG 50V 331-K	
C805	A1100-0472	C-CERAMIC;CK QA B 50V T 331-K CAX B TAPG 50V 331-K	
CN801	B6010-0359	CONNECTOR-WAFER;HLEH-27R-1 BLK	
CN802	66439-0047-00	CONNECTOR WIRE(ASSY);51004-9073/11P 1429#26 370MM	
CN803	66439-0048-00	CONNECTOR WIRE(ASSY);51004-9073/7P 1429#26 160MM T	
CN804	A6010-0254	CONNECTOR-WAFER;52556-0990 WHT	
CN805	A6010-0254	CONNECTOR-WAFER;52556-0990 WHT	
D800	62169-406-482	DIODE;1N4148 SAMSUNG	
D801	62169-406-482	DIODE;1N4148 SAMSUNG	
D802	62169-406-482	DIODE;1N4148 SAMSUNG	
D803	62169-406-482	DIODE;1N4148 SAMSUNG	
D804	62169-406-482	DIODE;1N4148 SAMSUNG	
D805	62169-406-482	DIODE;1N4148 SAMSUNG	
D806	62169-406-482	DIODE;1N4148 SAMSUNG	
D807	62169-406-482	DIODE;1N4148 SAMSUNG	
D808	62169-406-482	DIODE;1N4148 SAMSUNG	
D809	62169-406-482	DIODE;1N4148 SAMSUNG	
D810	62169-406-482	DIODE;1N4148 SAMSUNG	
D811	62169-406-482	DIODE;1N4148 SAMSUNG	
D812	62169-406-482	DIODE;1N4148 SAMSUNG	
D813	62169-406-482	DIODE;1N4148 SAMSUNG	
D814	62169-406-482	DIODE;1N4148 SAMSUNG	
D815	62169-406-482	DIODE;1N4148 SAMSUNG	
D818	62169-406-482	DIODE;1N4148 SAMSUNG	
D819	62169-406-482	DIODE;1N4148 SAMSUNG	
D850	62169-406-482	DIODE;1N4148 SAMSUNG	
FL801	A4153-0077	V.F.DISPLAY;BJ-274GK SV-300W	
JA801	B3040-0152	JACK-PIN;P10 TCS7940-01-201 5P SUPER	
JA802	A3040-0084	JACK-PIN;P14 DSPS-8805-03W 3P GLD	
JA803	A3040-0085	JACK-PIN;P14 DSPS-8805-03Y 3P GLD	
JA804	A3040-0063	JACK-PIN;P14 DSPS-8805-03 RED/GLD 3P	
L801	62427-612-331	COIL-PEAKING;EL0606RA 330UH-J	

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L802	62427-020-330	COIL PEAKING;AXIAL;LAL02TB 330J TAPG	
L850	A1160-0016	INDUCTOR;70UH-M RT BFS3565R2F	
L851	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857	
L852	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857	
L853	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857	
LD800	62309-110-340	LED;GL-34D7/GL34D8	
ND00	B6010-0911	CONNECTOR-WAFER;5597-08APB WHT	
Q800	62137-701-013	TRANSISTOR;KSR 1004 TAPG	
Q801	62137-701-020	TRANSISTOR;KSR 2001 TAPG	
Q802	62137-701-013	TRANSISTOR;KSR 1004 TAPG	
Q803	62137-701-020	TRANSISTOR;KSR 2001 TAPG	
R801	61048-177-473	R-CARBON;RD 1/8 T 473-J	
R802	A1006-0826	R-METAL FILM;FM 1/4 T 5R1-J SFR25	
R803	61048-177-153	R-CARBON;RD 1/8 T 153-J	
R804	61048-177-153	R-CARBON;RD 1/8 T 153-J	
R807	61048-177-392	R-CARBON;RD 1/8 T 392-J	
R808	61048-177-392	R-CARBON;RD 1/8 T 392-J	
R809	A1006-0795	R-METAL FILM;FM 1/4 T 101-J SFR25	
R810	A1006-0795	R-METAL FILM;FM 1/4 T 101-J SFR25	
R815	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R816	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R817	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R818	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R819	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R820	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R821	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R822	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R823	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R824	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R825	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R826	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R827	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R828	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R829	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R830	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R831	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R832	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R833	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R834	61048-177-683	R-CARBON;RD 1/8 T 683-J	
R836	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R837	61048-177-472	R-CARBON;RD 1/8 T 472-J	
R838	61048-177-221	R-CARBON;RD 1/8 T 221-J	
R839	61048-177-333	R-CARBON;RD 1/8 T 333-J	
RM800	B1294-0009	MODULE-REMOCON;HC-377M 37.9KHZ 940 MESH	
SW803	63599-016-070	SW-TACT;EVO-QS2 05K	
SW804	63599-016-070	SW-TACT;EVO-QS2 05K	
SW805	63599-016-070	SW-TACT;EVO-QS2 05K	
SW806	63599-016-070	SW-TACT;EVO-QS2 05K	
SW810	63599-016-070	SW-TACT;EVO-QS2 05K	
SW812	63599-016-070	SW-TACT;EVO-QS2 05K	
SW814	63599-016-070	SW-TACT;EVO-QS2 05K	
SW815	63599-016-070	SW-TACT;EVO-QS2 05K	
SW816	63599-016-070	SW-TACT;EVO-QS2 05K	
SW817	63519-102-148	SW-SLIDE;KSA 2240E	
SW818	63519-102-148	SW-SLIDE;KSA 2240E	
SW819	63519-102-148	SW-SLIDE;KSA 2240E	
VR801	61203-107-110	VR ROUND;FK09K1130/RH0102SQ 20KB	
ZD801	62169-423-092	DIODE-ZENER;MTZ 6.8BJUZ 6.8BH	
ZD802	62169-403-789	DIODE-ZENER;MTZ5.6C TAPG	
ZD803	62169-403-789	DIODE-ZENER;MTZ5.6C TAPG	
702	69315-302-201	ASSY JOINT;SV-300W	
CN8J00	B6010-0767	CONNECTOR-WAFER;5597-20CPB WHT	
CN8J01	B6010-0253	CONNECTOR-WAFER;53360-0990 WHT	
CN8J02	B6010-0253	CONNECTOR-WAFER;53360-0990 WHT	

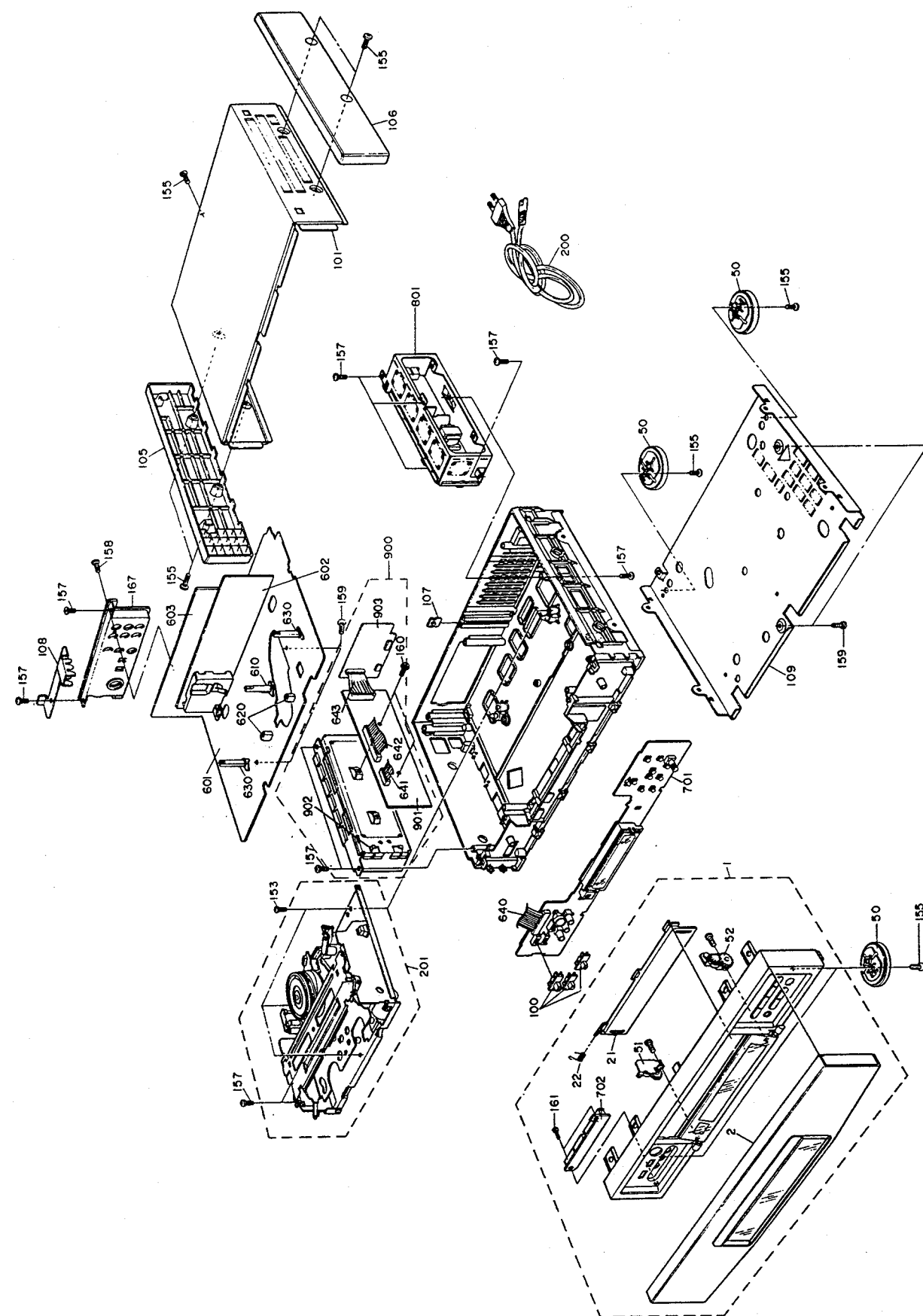
Loca.No	Part No	Description & Specification	Remark
-	69099-637-100	ASSY REMOCON:SV-300W/SEA	
CT01	64043-0169-01	DOOR-BATTERY REMOCON; ABS94HB T2 C/GLD SV-300W/SEA	
CT02	61637-802-479	C-ELEC;CEAP 6.3V 4.7M SE(3X5)	
CT03	61407-101-360	C-CERAMIC.TEMP;CC45 SL TAPG 50V 100-J	
DT01	61407-101-360	C-CERAMIC.TEMP;CC45 SL TAPG 50V 100-J	
DT02	A4150-0140	LED-INFRARED;KLN105AN TRP 940NM	
ICT01	A4150-0140	LED-INFRARED;KLN105AN TRP 940NM	
QT01	A4002-0389	IC-MCU;KSS1810-05 DIP	
RT01	62137-702-020	TRANSISTOR;KSC 1008-Y TAPG	
XT01	61048-177-109	R-CARBON;RD 1/8 T 010-J	
	64539-102-311	CERAMIC RESONATOR;CSB455EBL/KBR455EBTL	
*****	*****	*****	*****

6. EXPLODED VIEW / PARTS LIST

Page

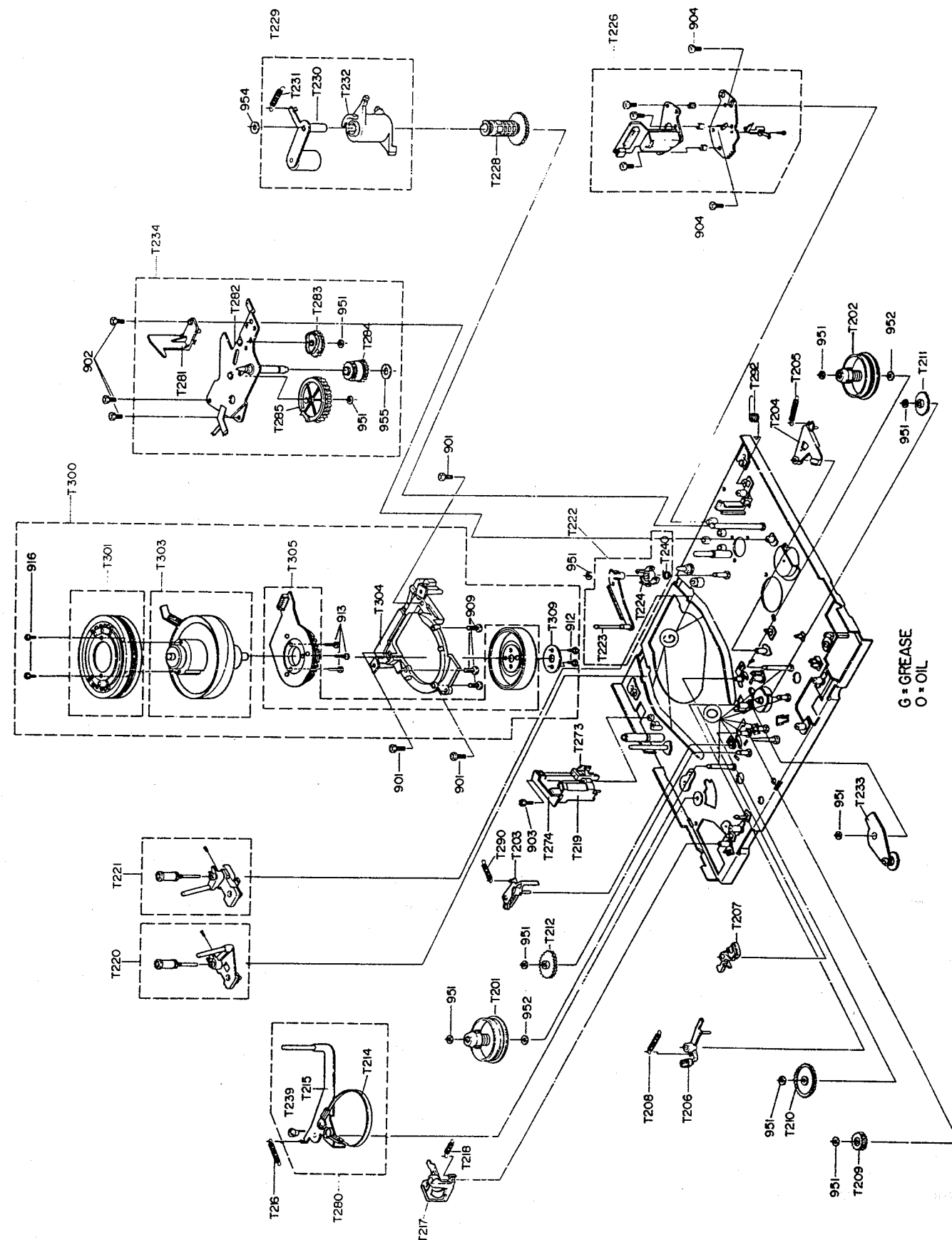
6-1.	INSTRUMENT ASSEMBLY	6-2
6-2.	MECHANICAL PARTS (TOP SIDE)	6-4
6-3.	MECHANICAL PARTS (BOTTOM SIDE)	6-6
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6-1. INSTRUMENT ASSEMBLY



Loca.No	Part No	Description & Specification	Remark
1	69000-302-557	ASSY PANEL FRONT;SV-300W/SEUK, SEG, SEI, SEJ, SEF, AND, TSE, ZAMA	
	69000-301-572	ASSY PANEL FRONT;SV-300W/SEA	
2	64049-0219-00	DOOR-FRONT(SEMI);SV-300W/SEUK, SEG, SEI, SEJ, SEF, AND, TSE, ZAMA	
	64049-0219-02	DOOR-FRONT(SEMI);SV-300W/SEA	
21	64043-0121-03	DOOR-HOUSING;SV-300W/SEUK, SEG, SEI, SEJ, SEF, AND, TSE, ZAMA	
	64043-0121-02	DOOR-HOUSING;SV-300W/SEA	
22	62724-0090-00	SPRING;SUS304 (GE/RCA)	
50	66073-600-711	DECORATION-LEG(ASSY);GLD DV-300W	
51	69000-100-524	ASSY DAMPER L;SV-300W	
52	69000-100-525	ASSY DAMPER R;SV-300W	
100	64084-0359-01	KNOB-SLIDE;ABS94HB BLK SV-300W	
101	62002-0023-01	CABINET-TOP;SECC T0.65 SPRAY CHAMPAIN GOLD	
105	69000-100-521	ASSY PANEL SIDE(L);SV-300W	
106	69000-100-522	ASSY PANEL SIDE(R);SV-300W	
107	66614-714-310	BRKT-GUIDE TOP S;SPG T1.0	
108	63014-0208-00	BRACKET-I/O;SECC T(1.0)	
109	63312-0114-00	COVER-BOTTOM;SECC C20 T0.5 BLK SV-8200	
153	67158-240-121	SCREW BH;2-4*12 FE FZY	
155	67158-240-163	SCREW-TAP BH;2-4X16 FE FZB	
157	60504-0040-00	SCREW-TAP TITE;BH + TB 3 L12 SWRCH18A ZPC3 YEL	
158	67098-130-065	SCREW TAP TITE BH;3X10 FE FZB	
159	67158-230-120	SCREW-TAP TITE BH;3X10 FE FZY	
160	60504-0046-00	SCREW-TAP TITE;PMH + TC M3 L6 SWRCH18A YEL ZPC3	
167	69333-100-223	ASSY CON-VOD;HIPS94HB(NON-BR)+PVC T0.3	
200	A6006-0261	POWER-CORD;SV-300W/SEA	
	A6006-0119	POWER-CORD;SV-300W/SEJ	
	A6006-0204	POWER-CORD;SV-300W/SEG, SEF, SEI, TSE, AND, ZAMA	
	B6006-0166	POWER-CORD;SV-300W/SEUK	
201	DX3W-R	FULL DECK ASSY;NTSC WINNER DECK	
601	69357-302-419	ASSY MAIN;SYS/SER/SEC SV-300W	
602	69512-302-201	ASSY PRE-AMP Y/C;SV-300W	
603	69523-302-201	ASSY HI-FI I/O;SV-300W	
610	63322-0174-00	HOLDER-LED;POM BLK	
620	63323-0060-00	HOLDER-PHOTO INTER;POM M90-44 H14.1 WHT(WINNER)	
630	63322-0173-00	HOLDER-TR;POM BLK	
640	63054-327-130	FFC CABLE;BNCD=1.25-K-27P-130M/M	
641	66049-0171-00	FPC;UL2896 SV-300W P11.25 12P 90MM SHIELD	
642	66049-0172-00	FPC;UL2896 SV-300W P11.25 32P 90MM SHIELD	
643	66049-0128-00	FPC;UL2896 P11.25 SV-300W 25P 80MM	
701	69373-302-240	ASSY TIMER;SV-300W/SEA	
702	69315-302-201	ASSY JOINT;SV-300W	
801	69098-130-802	REGULATOR ASSY;SV-300W/SEA	
	69098-030-800	REGULATOR ASSY;SV-300W/SEJ	
	69098-230-801	REGULATOR ASSY;SV-300W/SEUK, SEG, SEF, SEI, TSE, AND, ZAMA	
900	69300-301-207	ASSY SUB;SV-300W/SEA	
	69300-301-206	ASSY SUB;SV-300W/SEUK, SEG, SEF, SEI, SEJ, TSE, AND, ZAMA	
901	69329-302-207	ASSY ANALOG;SV-300W/SEA	
	69329-302-203	ASSY ANALOG;SV-300W/SEUK, SEG, SEF, SEI, SEJ, TSE, AND, ZAMA	
902	69329-302-206	ASSY DIGITAL;SV-300W/SEA	
	69329-302-204	ASSY DIGITAL;SV-300W/SEUK, SEG, SEF, SEI, SEJ, TSE, AND, ZAMA	
903	69379-302-201	ASSY Y/C SEPARATOR;SV-300W	

6-2. MECHANICAL PARTS (TOP SIDE)



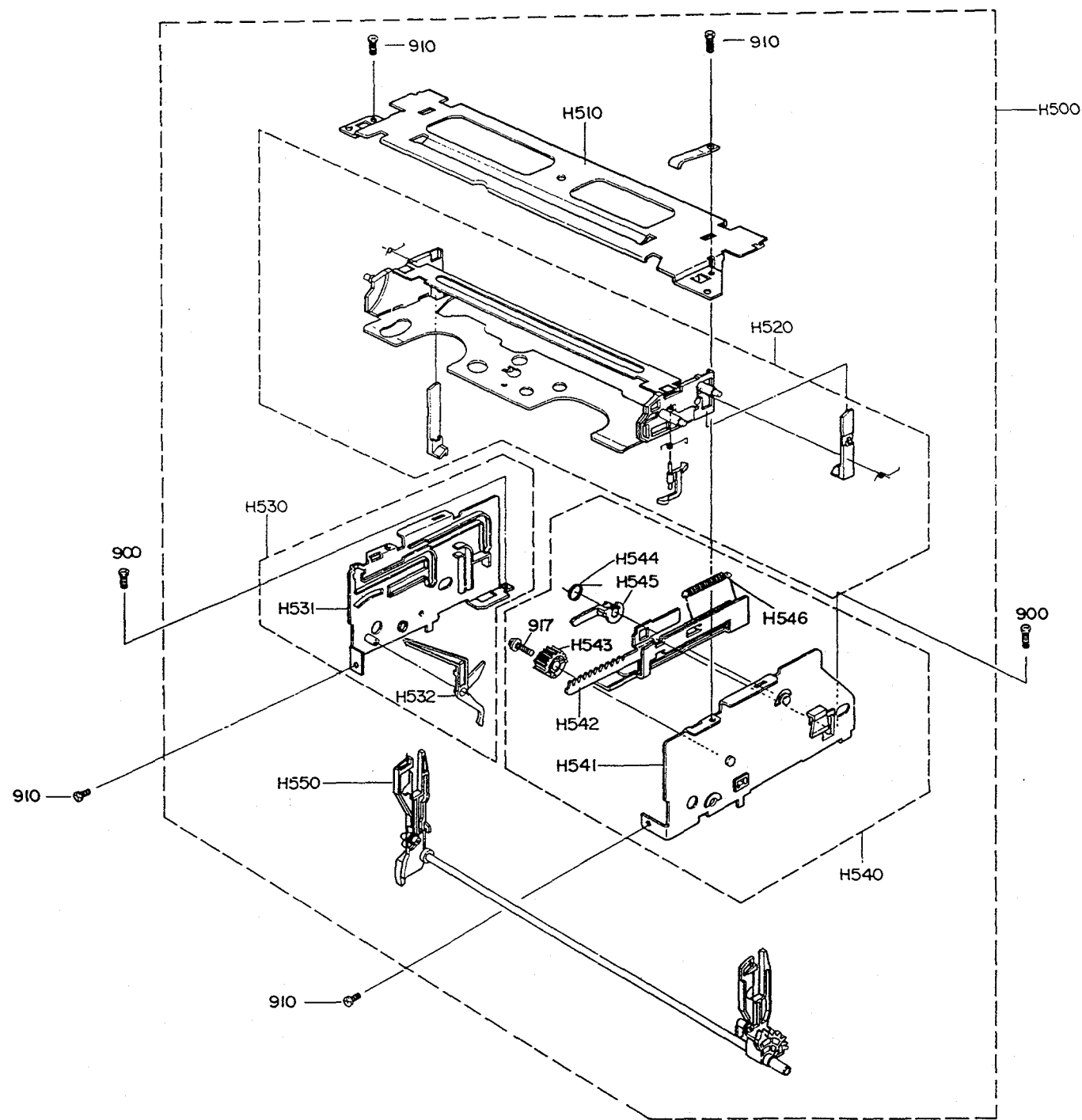
Loca.No	Part No	Description & Specification	Remark
901	60509-0064-00	SCREW-MACHINE;BH FP M3 L8 FE FZY WS	
902	60509-0063-00	SCREW-TAPPING;BH B M3 L8 FE FZY	
903	60504-0032-00	SCREW-PH;PH + 3 2.6 L10 SUM ZN YEL	
904	60509-0059-00	SCREW-MACHINE;BH FP M2.6 L6 FE FZY WSP	
909	60504-0081-00	SCREW-MACHINE;BH + FP 2.6 L9 SWPH10A YEL	
912	67094-604-710	SCREW-DAMPER;M2.0X7.0 SWOM 10(MFZN2-C)	
913	67008-123-101	SCREW-PH;M2.3X10 FE FZY	
916	67004-126-086	SCREW-BH;M2.6X8 WSZN/70391398	
951	67334-600-310	WASHER SLIT;P12.5XPI5XT0.5	
952	67304-103-410	WASHER-PLAIN;3.2X6X0.5 POLYSLIDER	
954	60534-0024-00	WASHER-SLIT;ID3 OD8 TO.5 POLYSLIDE	
955	60534-0019-00	WASHER-SLIT;A ID5 OD9 TO.5 POLYSLIDE	
T201	61574-0010-01	REEL DISK(L) ASSY;X3RL03032A	
T202	61574-0012-01	REEL-DISK R(ASSY);X-3 RL03031A	
T203	66603-620-110	BRAKE SUB L;PBT#3300 NAT	
T204	62614-0004-01	BRAKE SUB(R) ASSY;X3RL02021A	
T205	66674-652-610	S/P BRAKE SUB "R";SUS304 WPB	
T206	62614-0003-01	BRAKE MAIN(L) ASSY;X3RL02022A	
T207	62614-0002-01	BRAKE MAIN(R) ASSY;X3RL02021A	
T208	66674-652-510	S/P BRAKE MAIN;SUS304 WPB	
T209	61474-0061-01	GEAR RELAY S1;PEBAX #6333	
T210	61474-0062-01	GEAR RELAY S2;POM(M90-44) NAT	
T211	61474-0060-01	GEAR RELAY T;PEBAX #6333	
T212	61474-0063-01	GEAR RELAY S3;PEBAX #6333	
T214	62024-0005-01	BAND TENSION ASSY;X3RL04051A	
T215	69000-290-570	ARM-TENSION ASSY;SECC+SUS	
T216	66674-652-910	SPRING TENSION;SUS304	
T217	61533-0064-00	LEVER-REC S/W;POM M90-44 H12.1 NAT(WINNER)	
T218	62724-0075-00	SPRING-RECORD S/W;ES SUS304 P10.3 D3.1 L16	
T219	67083-0061-00	HEAD-MAGNETIC(FE);MH131S X-3W	
T220	69000-291-035	ASSY-P.B & G.R(L);X-3	
T221	69000-291-036	ASSY-P.B & G.R(R);X-3	
T222	69000-291-004	FULL REVIEW ARM ASSY;X-3	
T223	61544-0032-00	ARM-REVIEW ASSY;SECC+SUS303C+C36048D	
T224	61473-0059-01	GEAR REVIEW;POM(M90-44) NAT	
T226	69000-291-032	A/C HEAD ASSY;X-3(WINNER)	
T228	61472-0054-01	GEAR ESCALATOR;POM(M90-44)	
T229	61523-0021-01	PINCH ROLLER UNIT;X-3A	
T230	61543-0040-01	ARM PINCH ASSY;SECC 1.6+SUS+C36048D	
T231	62724-0062-01	S/P PINCH ROLLER;SUS304-WPB	
T232	63323-0043-01	HOLDER ESCALATOR;PC 30%	
T233	61604-0003-01	IDLER SUB ASSY;X3RL 06061A	
T234	67179-0069-03	UNIT-DRIVE PINCH;X-3	
T239	66654-617-810	CAM TENSION;POM(M90-44) WHT	
T240	62724-0117-00	SPRING-REVIEW;CS STS304/WPB P10.45 D5 L5.5	
T273	B6010-0248	CONNECTOR-WAFER;TMCE02PD1 BLK	
T274	66029-0296-00	P.C.B-F/E HEAD;1V0 T1.6 W29 L180 VT-350R	
T280	69000-290-560	ASSY FULL ARM TENSION;SECC+SUS+POM+VELT	
T281	63073-0015-00	SUPPORTER-LID OPENER;POM(M90-44) T2 X-3	
T282	63012-0098-00	BRACKET-PINCH DRIVE;SECC T1.0	
T283	61473-0058-01	GEAR CAM PINCH;POM(OL-10)	
T284	61473-0056-01	GEAR RELAY PINCH;PBT #2002	
T285	61473-0057-02	GEAR-CAM DRIVE;PBT #2002	
T290	62724-0101-00	SPRING-BRAK SUB L;SUS304 P10.3 D3 L20	
T292	62724-0082-01	SPRING-ESCALATOR;PS SUS304-WPB P11 D5 L30	
T300	69020-124-065	CYLINDER ASSY;CX4-H6PA/MULTI-DLC	
T301	69000-400-198	UPPER CYLINDER ASSY;CX4-H6N	
T303	69000-291-079	LOWER CYLINDER ASSY;CX4-H6N	
T304	62201-0051-00	BASE-CYLINDER;ADC12 WHT X-3W	
T305	66823-0043-00	MOTOR-CYLINDER;DMVDMT04C	
T309	66124-601-710	RETAINER-RUBBER ASSY;SECC+SILICONE	

6-3.



6-7

6-4. HOUSING ASSEMBLY



Loca.No	Part No	Description & Specification	Remark
900	60509-0061-00	SCREW-MACHINE;BH FP M3 L6 FE FZY	
910	60509-0062-00	SCREW-TAP TITE;BH + TS M3 L6 FE FZY	
917	67154-101-420	SCREW-TAP PMH;2S-3X8 FE FZY	
H500	62052-0004-02	HOUSING-F/L ASSY;X3FL29310C	
H510	62202-0029-00	CHASSIS-UPPER;SECC E20/20 T1.2	
H511	62654-0008-00	GROUND-PLATE TOP;SUS304 T0.3 HV350	
H520	63322-0044-00	HOLDER-CASS ASSY;X3FL11120A	
H530	62203-0027-00	CHASSIS-SIDE "L" ASSY;X3FL02020A	
H531	62203-0028-00	CHASSIS-SIDE "L";SECC T1.2+LUCAL /KEPITAL	
H532	61533-0043-00	LEVER-DOOR;LUCAL-N109-LD/KEPITAL F20-03	
H540	62203-0025-01	CHASSIS-SIDE "R" ASSY;X3FL080808	
H541	62203-0026-01	CHASSIS-SIDE "R";SECC T1.2 LVCEL	
H542	61474-0080-01	GEAR-RACK ASS'Y;SECC E20/20 T1.6 SWPB	
H543	61473-0064-01	GEAR-JOINT;LUCAL MR-320/KT-20	
H544	62724-0067-01	SPRING-LEVER DAMPER;TS STS304 WPB P10.85 L12	
H545	61533-0042-01	LEVER-DAMPER;LUCAL N109-LD/KEPITAL F20-03 BLK	
H546	62724-0112-00	SPRING-RACK GEAR;ES SWPB P10.5 D3.5	
H550	61043-0025-00	SHAFT AFM ASSY;X3FL05050A	

7. ADJUSTMENT

7-1. MECHANICAL ADJUSTMENT

7-1-1. TAPE TRANSPORT SYSTEM

Note :

The tape transport system has been adjusted precisely in the factory. Alignment is not necessary except for the followings :

- Noises observed on the screen.
- Tape damage.
- Parts replacement in the tape transport system.

1. Location of Tape Transport Adjustment (Adjustment Reference)

Lower flange height of tape guide is used as the basic reference for the transport adjustment.
To keep height of the tape guide, do not apply excessive force onto the main base to prevent damage.

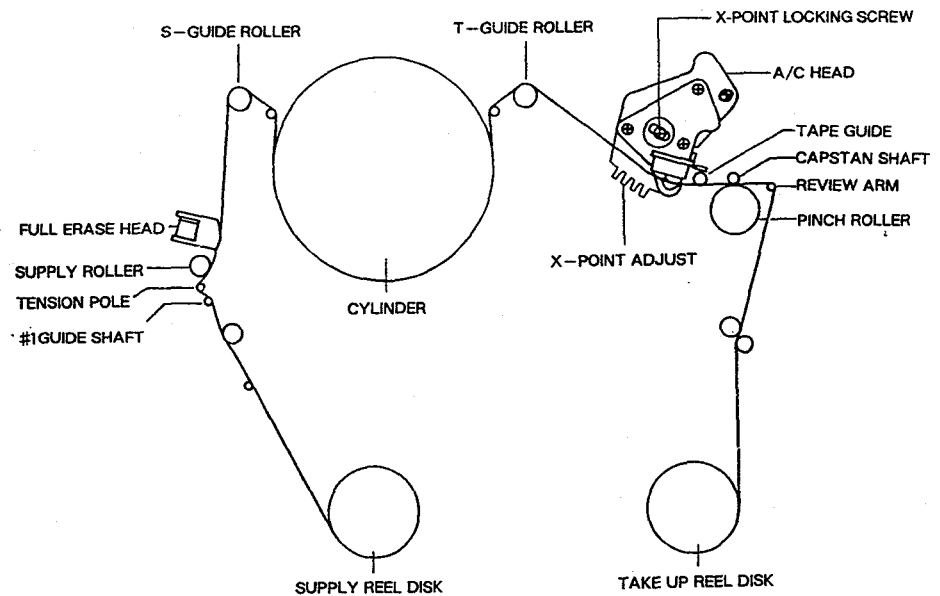


Fig. 1 Location of Tape Transport Adjustment

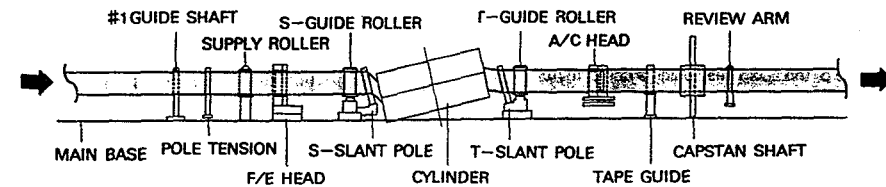


Fig. 2 Tape Travel Diagram

2. Tape Transport System Adjustment

1) Pre-adjustment

When the part(s) are replaced, perform required adjustments by referring to procedures for the tape transport system. When the part (s) are replaced, the tape path may be changed. First run a E-180 tape and make sure excessive tape wrinkle does not occur at each tape guide.

1. If tape wrinkle is observed at the S, T-guide rollers, turn the S, T-guide rollers until wrinkle disappears.
2. If the tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the A/C head.

2) Adjustment procedure

【1】A/C head assembly adjustment

Test Point : W3S48 (H'D SW - Trigger)
W3S51 (Envelope)
W3S49 (CTL Pulse)
TP4301-2 Pin (Audio Out)
Test Tape : PAL Color Bar
Mono Scope
Blank Tape (E-240)

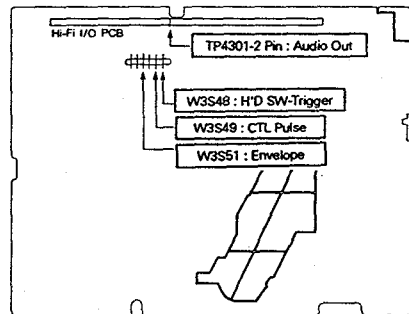


Fig. 3 Location of Test Point (Main PCB : Top Side)

a. A/C head height adjustment

1. Run the alignment tape (PAL Color Bar) in the playback mode.
2. Observe surface of the audio head using a dental mirror.
3. Turn screw (A), (B), (C) clockwise or counterclockwise until the gap of lower tape edge and the lower edge of the control head is about 0.25 mm. (Refer to Fig. 4 and 5)

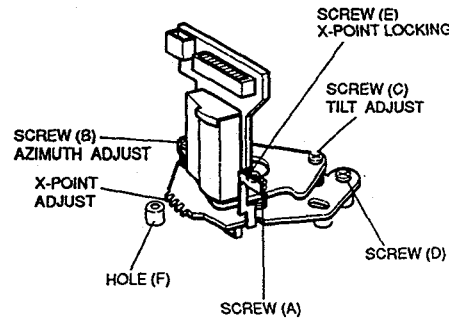


Fig. 4 Location of A/C Head Adjustment Screw

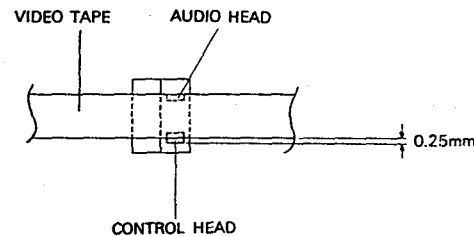


Fig. 5 A/C Head Height Adjustment

b. A/C head tilt adjustment

1. Playback a E-240 tape and observe position of the tape at the lower flange of tape guide.
2. Confirm that there is no curl or wrinkle at the lower flange of tape guide as shown in Fig. 6 (B).
3. If a curl or wrinkle of the tape has occurred, slightly turn the screw (C) tilt adjust on the A/C H'd ass'y clockwise until it disappears as shown in Fig. 6 (B).
4. Reconfirm the A/C head height.

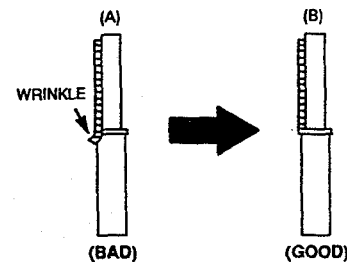


Fig. 6 Tape Guide Check

c. Audio azimuth adjustment

1. Load alignment tape (Mono Scope) and playback the 6KHz signal.
2. Connect channel-1 scope probe to Line 1 out L on the Main PCB.
3. Adjust screw (B) to achieve maximum audio level. (See Fig. 4)

d. A/C head position (X-Point) adjustment

1. Playback the mono scope alignment tape.
2. Connect CH-1 scope probe to W3S49.
3. Connect CH-2 scope probe to W3S48 and trigger head switching pulse.
4. Set tracking preset to 0.5msec using the "TRK" (Tracking) button A/V of remote control. (Refer to Fig. 7 and 8)
5. Connect CH-1 scope probe to W3S51.
6. Turn screw (E) counterclockwise. (See Fig. 4)
7. Insert the adjusting driver (X-Point) into the hole (F) of main base and adjust the A/C head ass'y so that envelope waveform is maximum amplitude and then tighten screw (E).

◆ Setting of Scope ◆

- Volt/div. : CH-1 = 0.1V
CH-2 = 0.2V
- Time/div. : 5msec

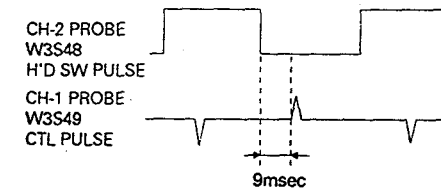


Fig. 7 Tracking Preset Adjustment

REMOTE BUTTONS	CONTROL PULSE REMOVE
PUSH Tracking V	[Waveform showing a single pulse]
Tracking V PUSH	[Waveform showing a double pulse]

Fig. 8 Control Pulse Adjustment

【2】Linearity adjustment (S, T-guide rollers adjustment)

Test Point : W3S48 (H'D SW - Trigger)
W3S51 (Envelope)
Test Tape : Mono Scope

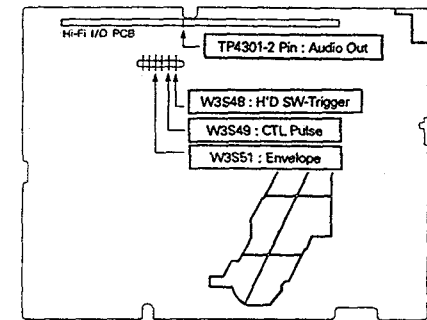
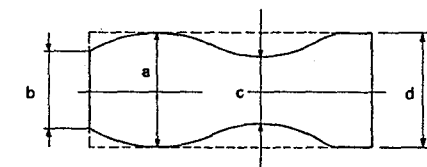


Fig. 9 Location of Test Point (Main PCB : Top Side)

1. Playback the mono scope alignment tape (SP mode).
2. Observe the video envelope signal on an oscilloscope triggered by the video switching pulse.
3. Make sure the video envelope waveform (in its minimum output) meets the specification shown in Fig. 10. If it does not, adjust as follows :

Note:
a=Maximum output of the video RF envelope
b=Minimum output of the video RF envelope at the entrance side
c=Minimum output of the video RF envelope at the center point
d=Minimum output of the video RF envelope at the exit side.



$$a, b, c, d/a \approx 63\%$$

Fig. 10 Envelope Waveform Adjustment

4. If the section A in Fig. 11 does not meet the specification, adjust the S-guide roller up or down.
5. If the section B in Fig. 11 does not meet the specification, adjust T-guide roller up or down.

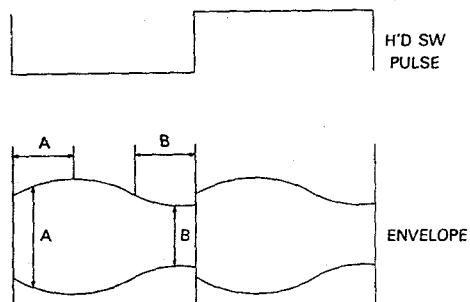


Fig. 11 Adjustment Points

6. Slightly loosen the set screw at the lower part of the S, T-guide rollers with a (Hex Wrench - 0.9mm) so that the guide roller can be adjusted with reasonable tightness. (Refer to Fig. 12)

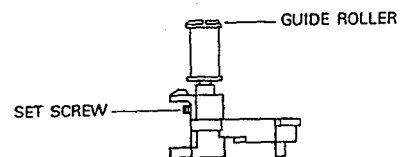


Fig. 12

7. Playback the mono scope alignment tape (SP mode).
8. Connect an oscilloscope CH-1 to the W3S51 and CH-2 to the W3S48 on the same PCB for triggering.
9. Turn the guide roller heads with a flat head () screw driver to obtain flat video RF envelope as shown in Fig. 13.
10. After the adjustment is completed, tighten the set screws.

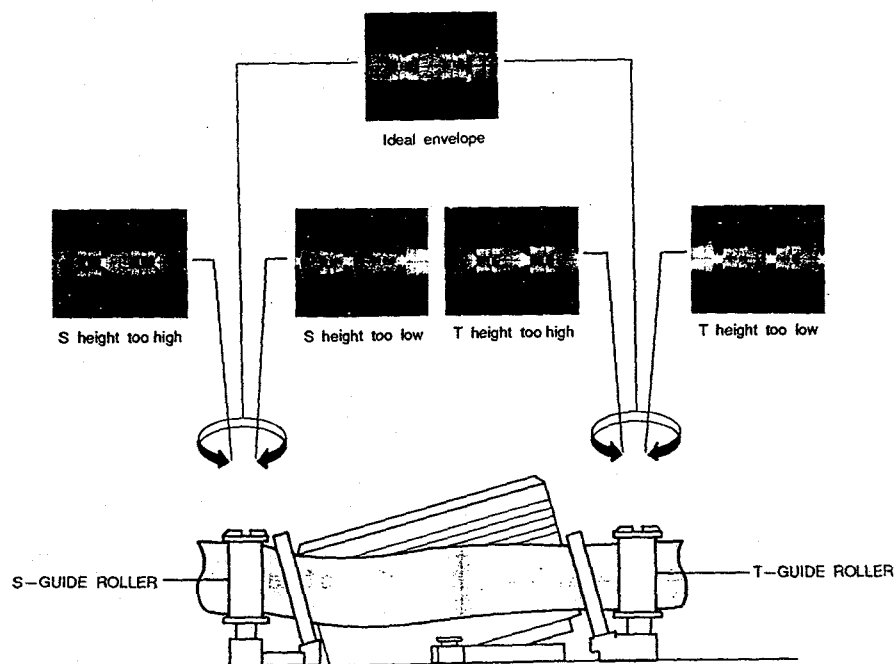


Fig. 13 S, T-Guide Roller Height Adjustments

[3] Check for transitional operation from RPS to play

Check transition from RPS mode to play mode, using a pre-recorded SP tape, make sure the entrance side of envelope comes to an appropriate steady state within 3 seconds as shown in Fig. 14.

If the envelope waveform does not reach specified peak-to-peak amplitude within 3 seconds, adjust as follows :

1. Make sure there is no gap between the supply roller lower flange and the tape.
If there is a gap, adjust the supply guide roller again.
2. Change operation mode from the RPS to the play mode again and make sure entrance side of envelope rises within 3 seconds.

ENTRANCE SIDE
ENVELOPE

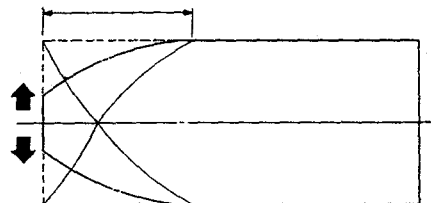


Fig. 14 Video envelope rising when operation mode changes from RPS to play mode.

[4] Envelope check

1. Make recordings on E-120 and E-180 tapes, and make sure the playback output envelope meets the specification as shown in Fig. 15.
2. Playback a self recorded tape (recording made on this unit), (with a E-120) the video envelope should meet the specification as shown in Fig. 15.
In SP mode, (A) should be same as (B).
If the head gap is wide, upper cylinder should be checked.

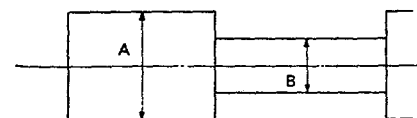


Fig. 15 Envelope Output and Output Level Difference

[5] Tape wrinkle check

1. Run the E-240 tape in the playback, FPS, RPS and the pause mode and then observe tape wrinkle at each guide.
2. If excessive tape wrinkle is observed in the mode shown above, perform the associated adjustment shown below.

a. Playback mode

- Tape wrinkle at the S, T-guide roller section : Linearity adjustment.
- Tape wrinkle at tape guide flange : A/C head assembly coarse adjustment.

7-1-2. REEL TORQUE

1. Reel Torque

1. The rotation of the capstan motor operates the clutch ass'y through the belt capstan motor.
2. Brake operation and shift operation in FF/REW are done by a slide lever.
3. Transportation of accurate driving force is done by gears. (clutch ass'y)

MODE	TORQUE g/cm	GAUGE
PB/REC	100 ± 30	Cassette Torquemeter
RPS	170 ± 30	Cassette Torquemeter
FF/REW	Minimum 600	Torque Gauge

Note : If the spec is out of above chart, replace the clutch ass'y and then recheck.

2. Location of Tension Pole and Back Tension Adjustment

1. Remove the housing ass'y and set the deck to "PLAY" mode.
2. Adjust the cam tension to 0 ~ -0.5mm from the center of supply roller.
3. The back tension meter should be used for checking back tension.

Check back tension, should be 40 ~ 47g.cm.
If not, adjust cam tension.

Counterclockwise : Torque UP
Clockwise : Torque DOWN

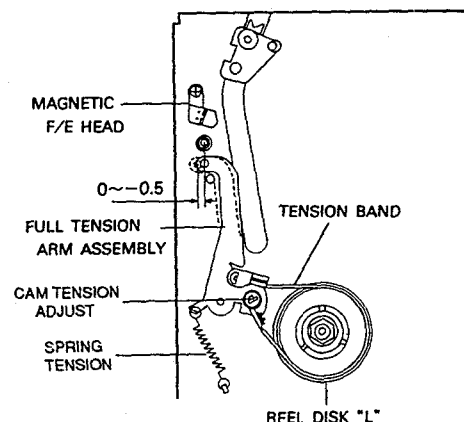


Fig. 16 Tension Pole and Back Tension Adjustment

BACK TENSION METER

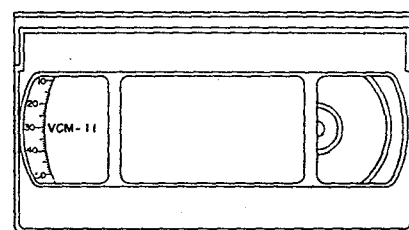


Fig. 17 Back Tension Tape Torque Cassette

7-2. ELECTRICAL ADJUSTMENTS

7-2-1. PREPARATION

Electrical adjustments are required after replacing circuit components and certain mechanical parts.
It is important to perform these adjustment only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

1. Required Test Equipment

1. Color Television or Monitor.
2. Oscilloscope : Wide-band, dual-trace, triggered delayed sweep.
3. Trackingscope.
4. AC Voltmeter.
5. Frequency counter.
6. Recording tape (Blank tape).
7. Pattern Generator : PAL color bar, NTSC SP Color bar, SECAM Color bar

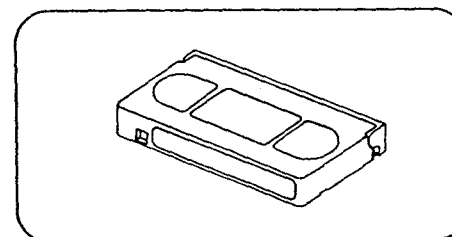


Fig. 1 Alignment Tape

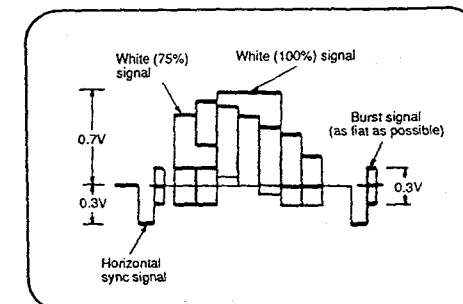


Fig. 2 Color bar signal of pattern generator

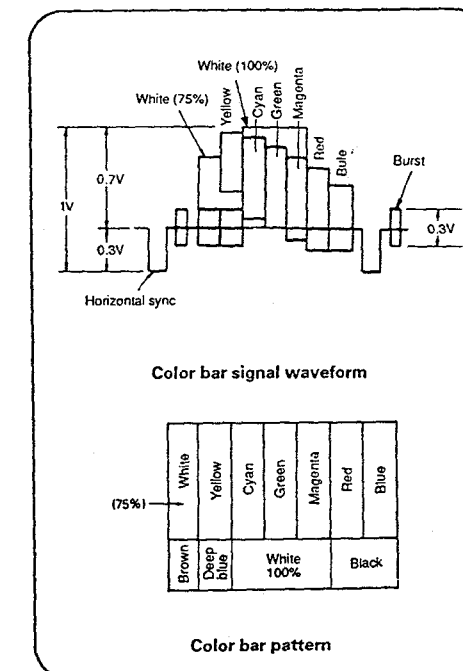


Fig. 3 Color bar signal of alignment tape (75% Color Bars)

7-2. ELECTRICAL ADJUSTMENTS

7-2-1. PREPARATION

Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustment only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

1. Required Test Equipment

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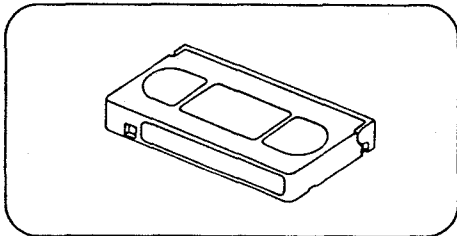


Fig. 1 Alignment Tape

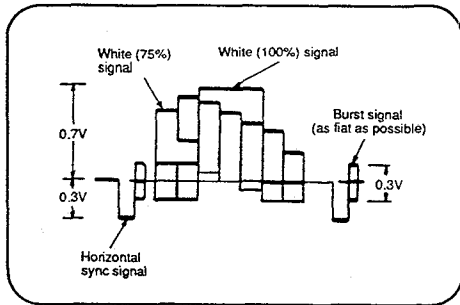


Fig. 2 Color bar signal of pattern generator

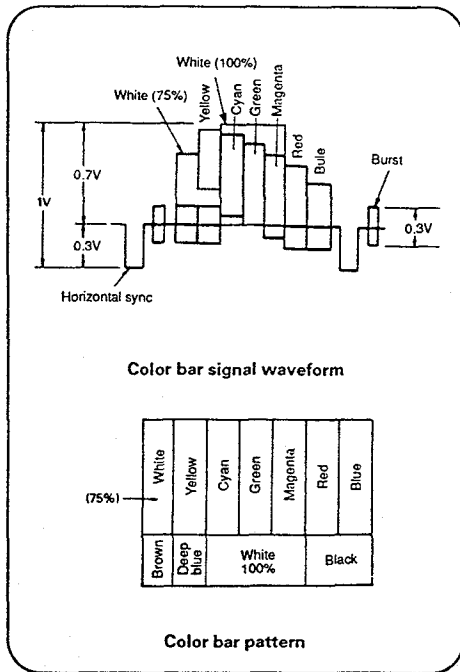
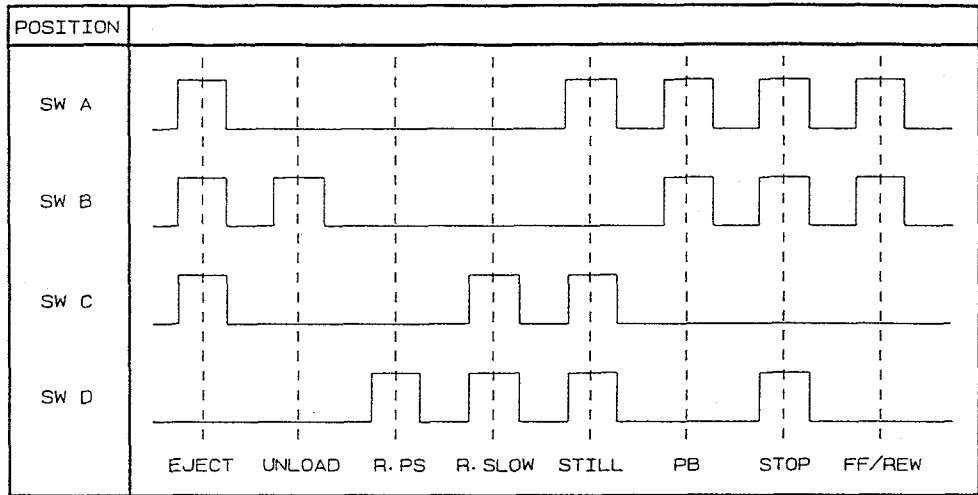


Fig. 3 Color bar signal of alignment tape (75% Color Bars)

7-2-2. TIMING CHART OF PROGRAM S/W



MODE (OPERATION CONDITION)	SWITCH POSITION	IC604			
		A	B	C	D
EJECT	EJECT	H	H	H	L
UNLOAD	UNLOAD	L	H	L	L
R. PS	R. PS	L	L	L	H
R. SLOW	R. SLOW	L	L	H	H
STILL	STILL	H	L	H	H
PLAY. FPS. REC	PB	H	H	L	L
STOP	STOP	H	H	L	H
FF/REW	FF/REW	H	H	L	L

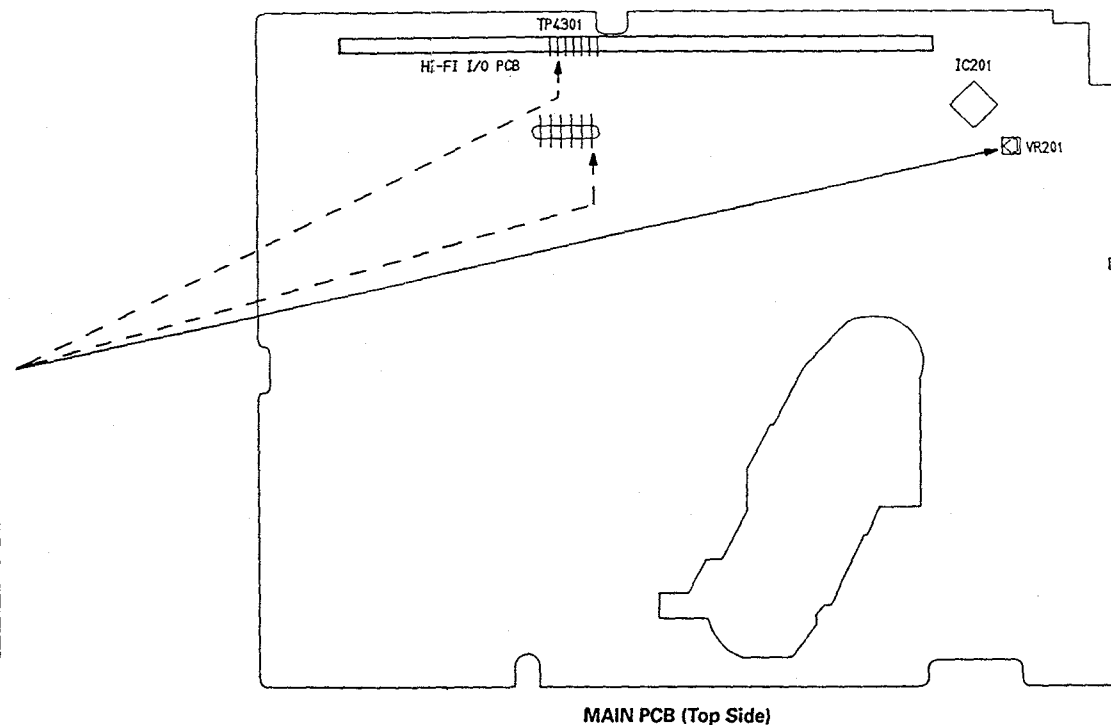
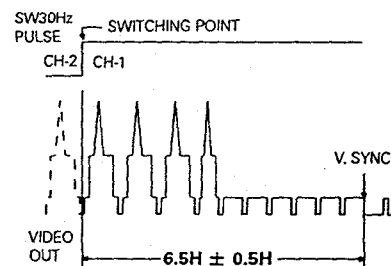
7-2-3. SERVO SECTION

STEP	ADJUSTMENT ITEM
1.	MODE and INPUT SIGNAL/ALIGNMENT TAPE
2.	TEST POINT and ADJ. part
3.	RESULT & REMARKS

ADJ. part
Test Point

1 SWITCHING POINT

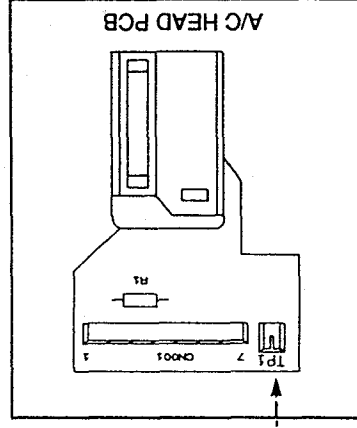
1. Play back the color bar signal.
2. Connect channel-1 scope probe to W3S48 (H'd SAW).
3. Connect channel-2 scope probe to TP4301-2 pin.
4. Set the scope (+) slope and adjust the VR201 so that the trailing edge of the SW 25Hz pulse is placed $6.5H \pm 0.5H$ (horizontal) lines before the start of vertical sync pulse in figure.



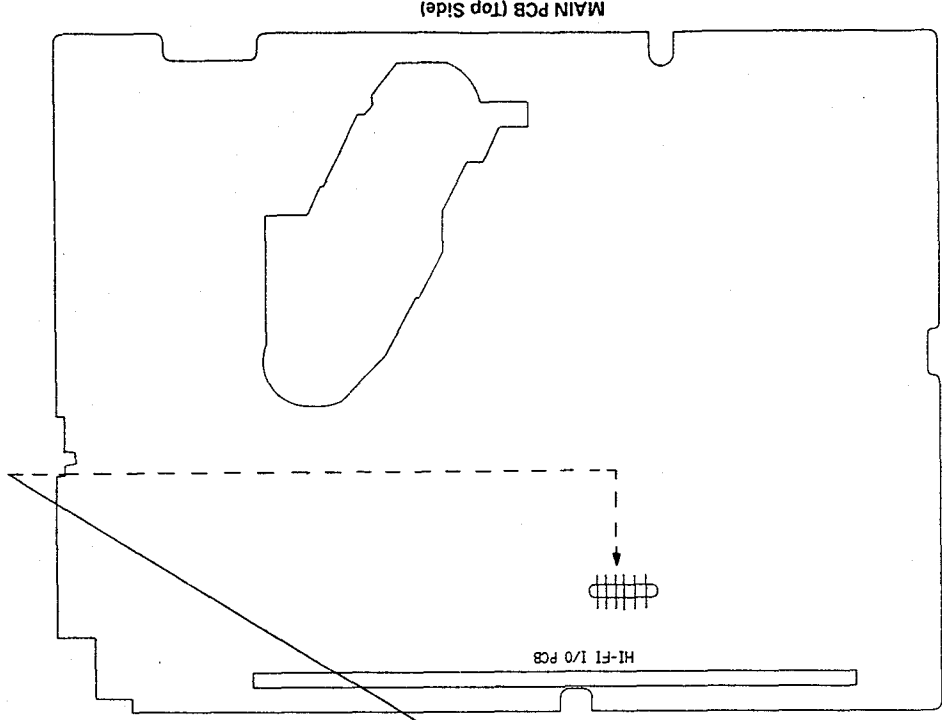
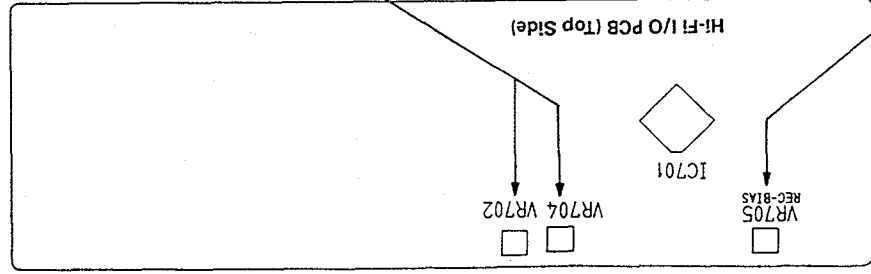
7-2-4. AUDIO

2 AUDIO BL

1. Load blank no signal.
2. Connect the
3. Adjust the 2.5 ± 0.1

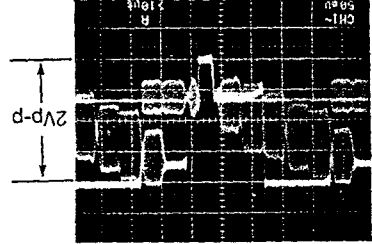


- 2 AUDIO BIAS LEVEL**
1. Load blank tape and place in the SP record mode with no signal.
 2. Connect the oscilloscope to TP1 in A/C Head.
 3. Adjust the audio bias level control VR705 for $2.5 \pm 0.1\text{mVrms}$.



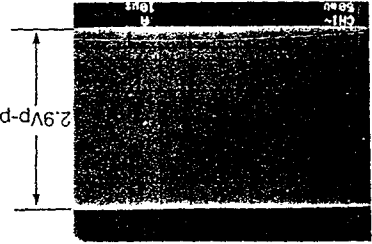
- 1 HI-FI CARRIER**
1. Set the input selection S/W to "input 1" and disconnect the audio jack.
 2. Set the input/output button to "PAL" mode and then record with a blank tape.
 3. Connect the probe of frequency counter to W3550 and adjust VR704 for $1.8\text{MHz} \pm 5\text{KHz}$.
 4. Connect the probe of frequency counter to W3550 and adjust VR702 for $1.4\text{MHz} \pm 5\text{KHz}$.

4 PB Y LEVEL

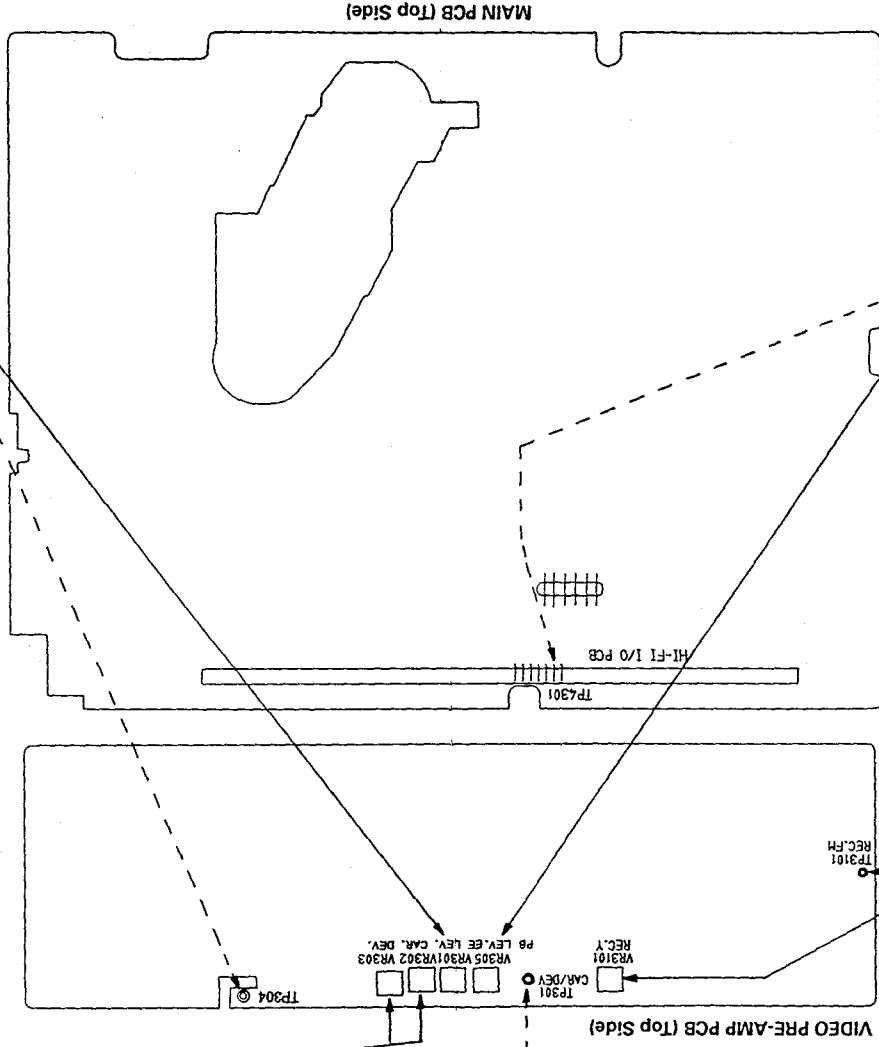


1. Load the instrument with an alignment tape and playback the color bar signal (PAL color bar tape).
2. Connect oscilloscope to TP4301-2 pin (I/O PCB).
3. Adjust the playback level control VR305 for 2Vp-p.

3 REC CURRENT

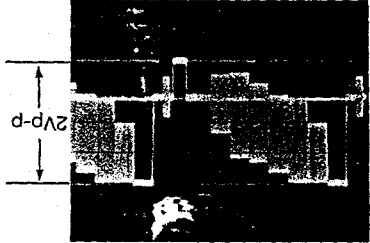


1. Do not connect the input signal to the rear or front RCA jack.
2. Output select (f/panel) to PAL mode.
3. Load a recording tape and start recording.
4. Connect oscilloscope to TP3101 (Pre-amp).
5. Adjust the REC current control VR3101 for 2.9Vp-p.



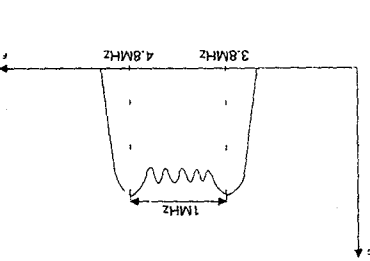
NOTE: All adjustment must be set to input select auto and output select through mode (Front panel)

1 E-E LEVEL



1. Apply 100% white color bar signal to the video input jack (front or rear).
2. Select the input select S/W to rear or front.
3. Connect oscilloscope to TO304.
4. Adjust the E-E level control VR301 so that the TP304 level is $2.0 \pm 0.2Vp-p$.

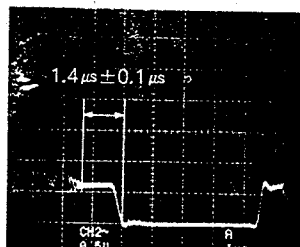
2 CARRIER/DEVIATION



1. Apply 100% white color bar signal to the video input jack.
2. Select the input select S/W to rear or front.
3. Select the input to auto, output select to PAL.
4. Connect tracking scope to TP301.
5. Adjust the FM carrier control VR302 so that the frequency is $3.8 \pm 0.1MHz$.
6. Adjust the deviation control VR303 so that the frequency is $4.8 \pm 0.1MHz$.

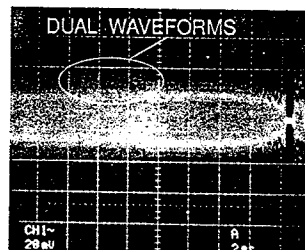
6 PB SYNC GATE

1. Load the instrument with an alignment tape and playback the color bar signal (SECAM color bar tape).
2. Connect oscilloscope TP4301-2 pin (I/O PCB).
3. Adjust VR3S02 (Main PCB) for $1.4\mu s \pm 0.1\mu s$.

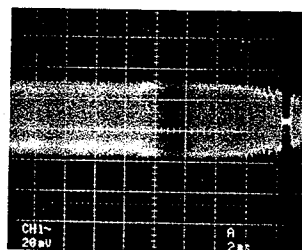


7 PB BELL

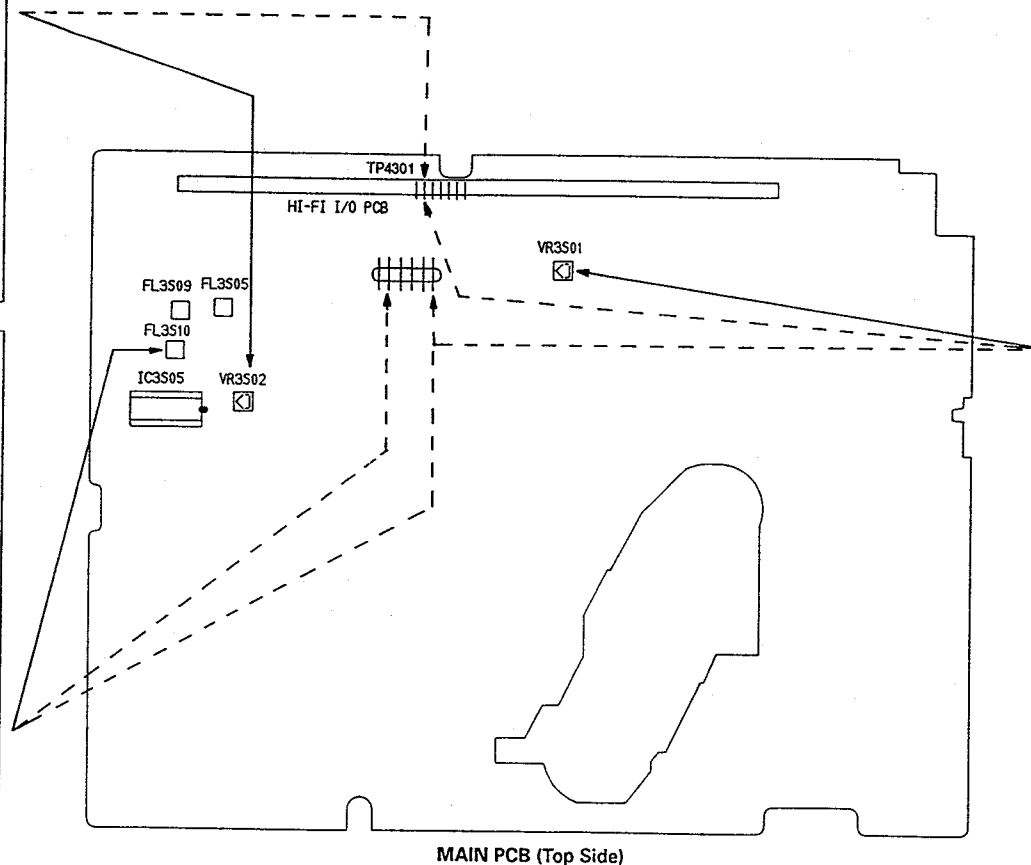
1. Load the instrument with an alignment tape and playback the color bar signal (SECAM color bar tape).
2. Connect oscilloscope channel-1 to W3S52, channel-2 to W3S48.
3. Adjust FL3S10 so that the top and bottom part is as flat as possible.



< Before Adjustment >



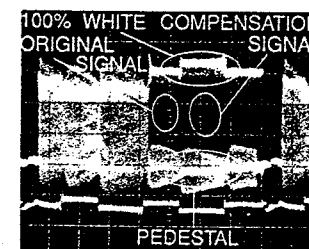
< After Adjustment >



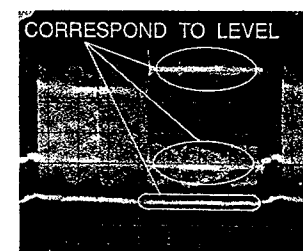
MAIN PCB (Top Side)

5 NTSC SKEW

1. Load the instrument with an alignment tape and playback the color bar signal (NTSC SP color bar tape).
2. Connect channel-1 scope probe (1V/div, 50μs/div.).
3. Connect channel-2 scope probe to TP4301-2 pin (I/O PCB).
4. Set the VCR to RPS (Reverse picture search) or FPS (forward picture search) mode.
5. Adjust the NTSC SKEW control VR3S01 (Main PCB) so that the 100% white and pedestal is as flat as possible.

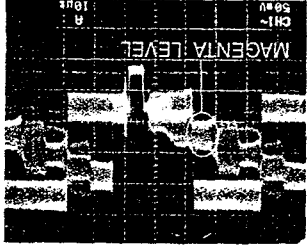


< Before Adjustment >

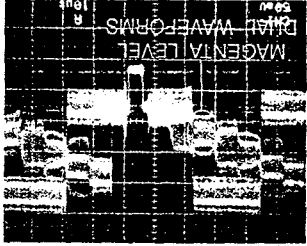


< After Adjustment >

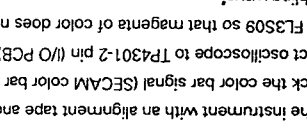
8 PB ANTI BELL
< After Adjustment >



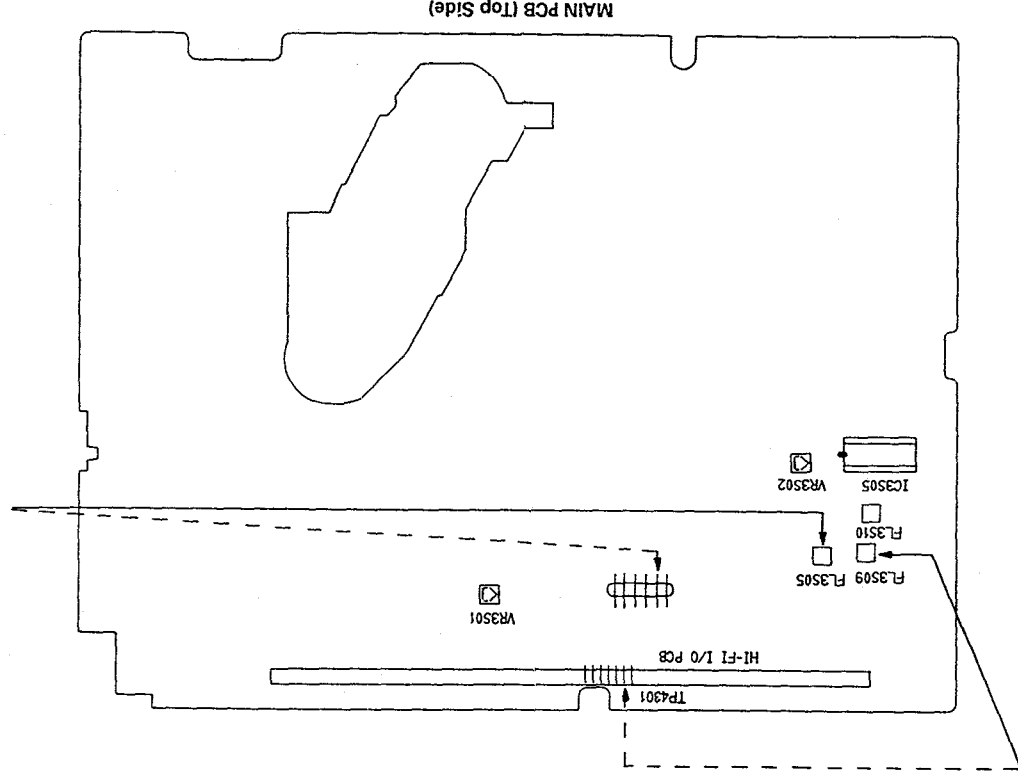
< Before Adjustment >
CH1 50mV 10µs



DUAL WAVEFORMS
CH2 50mV 10µs



1. Load the instrument with an alignment tape and playback the color bar signal (SECAM color bar tape).
2. Connect oscilloscope to TP4301-2 pin (I/O PCB).
3. Adjust FL3509 so that magenta of color does not make a "Doubling wave".



9 REC ANTI BELL
< After Adjustment >



< Before Adjustment >
MAGENTA LEVEL



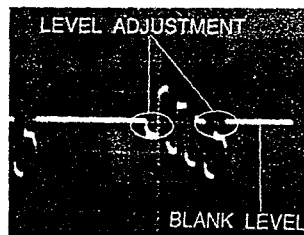
DUAL WAVEFORMS
MAGENTA LEVEL

1. Apply SECAM color bar signal to the video input jack (Rear or front RCA jack).
2. Select the input select S/W to rear or front.
3. Load blank tape and make a recording.
4. Connect oscilloscope to W3552 (Main PCB).
5. Connect FL3505 so that magenta of color does not make a "Doubling wave".

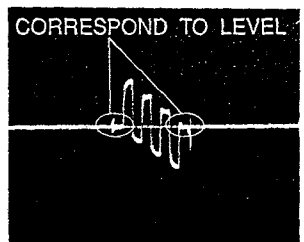
7-2-6. DIGITAL SECTION

6 SECAM B-Y

1. Apply SECAM color bar signal to the video jack on the rear panel.
2. Select input mode selection key to SECAM.
3. Connect channel-1 oscilloscope probe to TPA8.
4. Adjust VLA1 so that blank level is same as shown below.



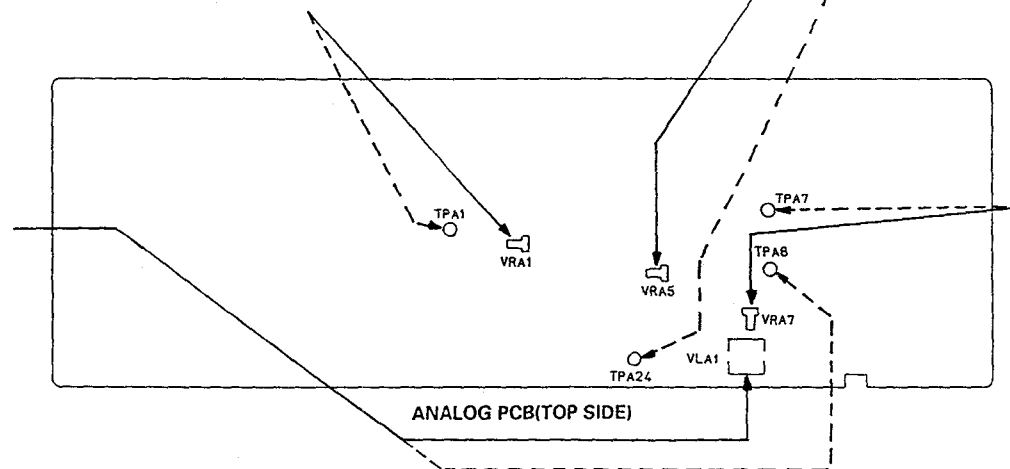
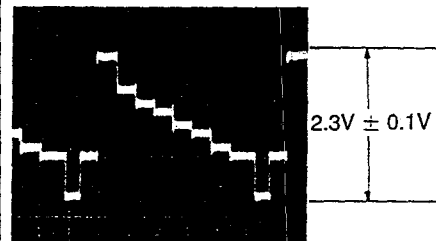
< Before Adjustment >



< After Adjustment >

4 WRITE-Y

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Connect channel-1 oscilloscope probe to TPA1.
4. Adjust VRA1 so that TPA1 is $2.3V_p \pm 0.1V$.

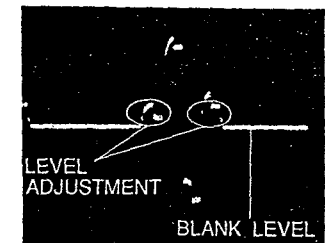


1 AFC

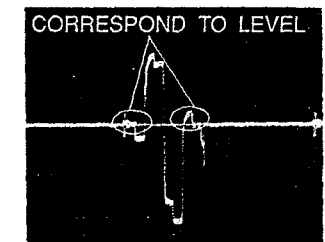
1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Connect channel-1 oscilloscope probe to TPA24.
4. Adjust VRA5 for DC $2.9V \pm 0.1V$.

5 SECAM R-Y

1. Apply SECAM color bar signal to the video jack on the rear panel.
2. Select input mode selection key to SECAM.
3. Connect channel-1 oscilloscope probe to TPA7.
4. Adjust VRA7 so that blank level is same as shown below.



< Before Adjustment >



< After Adjustment >

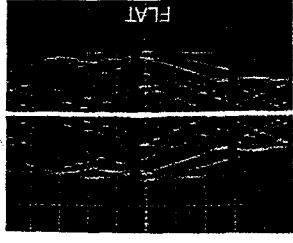
7 X-TAL FREE-RUN FREQUENCY

1. Connect wire between TPA22 and TAP23.
2. Apply PAL color bar signal to the video jack on the rear panel.
3. Select input mode selection key to PAL.
4. Connect channel-1 oscilloscope probe to TPA8.
5. Adjust VCA1 so that free-run frequency is as flat as possible.
6. Apply PAL-N color bar signal to the video jack on the rear panel.
7. Select input mode selection key to PAL-N.
8. Adjust VCA3 so that free-run frequency is as flat as possible.
9. Apply PAL-M color bar signal to the video jack on the rear panel.
10. Select input mode selection key to PAL-M.
11. Adjust VCA2 so that free-run frequency is as flat as possible.
12. Apply NTSC 3.58 color bar signal to the video jack on the rear panel.
13. Select input mode selection key to NTSC 3.58.
14. Adjust VCA4 so that free-run frequency is as flat as possible.
15. Remove wire between TAP22 and TPA23.

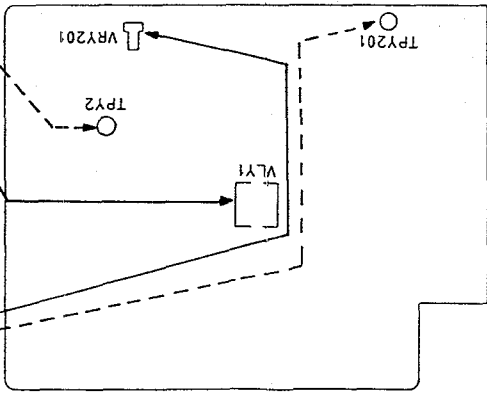
< Before Adjustment >



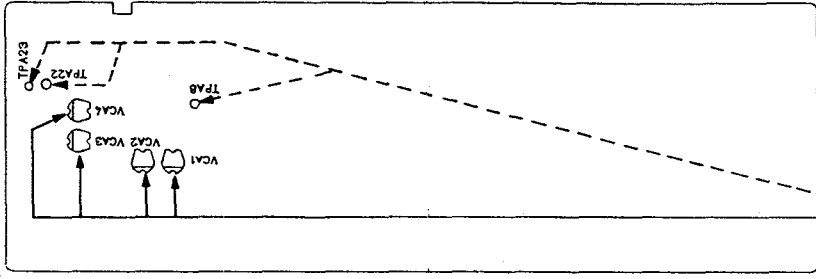
< After Adjustment >



V/C SEPARATOR PCB(TOP SIDE)



ANALOG PCB(TOP SIDE)

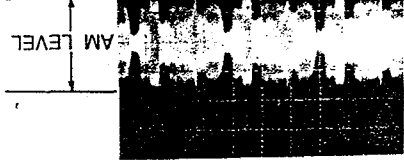


3 4.43MHz DETECTION

1. Apply NTSC 3.58 color bar signal to the video jack on the rear panel.
2. Select input mode selection key to AUTO.
3. Connect channel-1 oscilloscope probe to TPA201.
4. Adjust VRY201 for $DC 2.3V \pm 0.1V$.

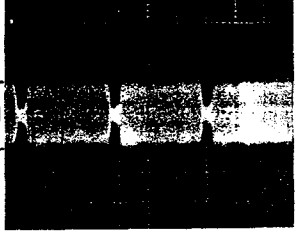
2 SECAM BELL

1. Apply SECAM color bar signal to the video jack on the rear panel.
2. Select input mode selection key to SECAM.
3. Connect channel-1 oscilloscope probe to TPA2.
4. Adjust the VLY1 so that the AM level is minimum as shown below.



< Before Adjustment >

AM LEVEL

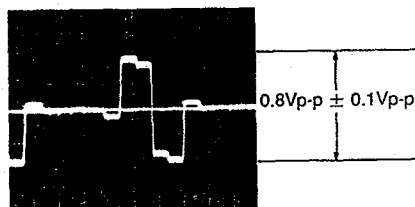


< After Adjustment >

MINIMUM

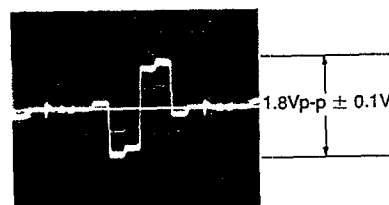
11 READ R-Y

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Select output mode selection key to NTSC 3.58.
4. Connect channel-1 oscilloscope probe to TPA13.
5. Adjust VRA10 so that TPA13 is $0.8V_{p-p} \pm 0.1V_{p-p}$.



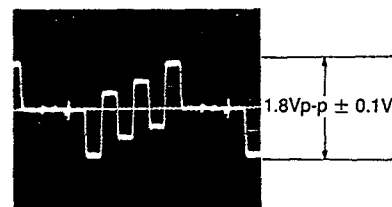
9 WRITE R-Y

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Connect channel-1 oscilloscope probe to TPA2.
4. Adjust VRA2 so that TPA2 is $1.8V_{p-p} \pm 0.1V$.



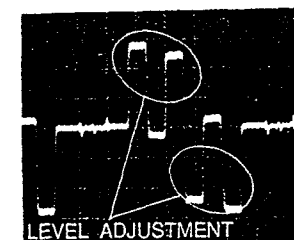
8 WRITE B-Y

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Connect channel-1 oscilloscope probe to TPA3.
4. Adjust VRA3 so that TPA3 is $1.8V_{p-p} \pm 0.1V$.

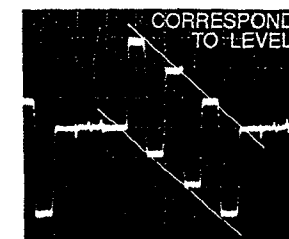


10 NTSC HUE

1. Apply NTSC color bar signal to the video jack on the rear panel.
2. Select input mode selection key to NTSC.
3. Connect channel-1 oscilloscope probe to TPA8.
4. Adjust VRA6 as shown below.



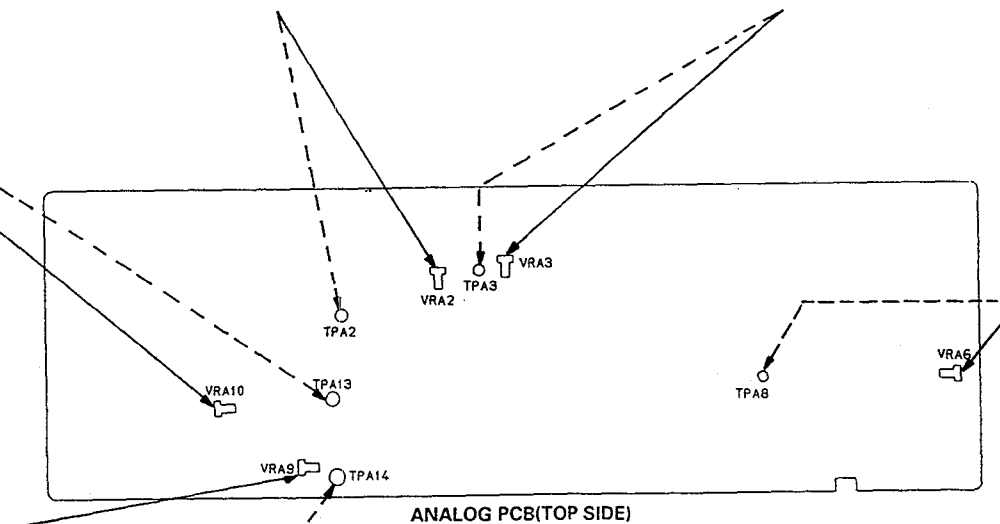
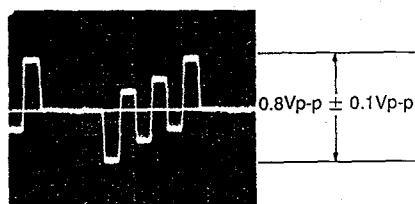
< Before Adjustment >



< After Adjustment >

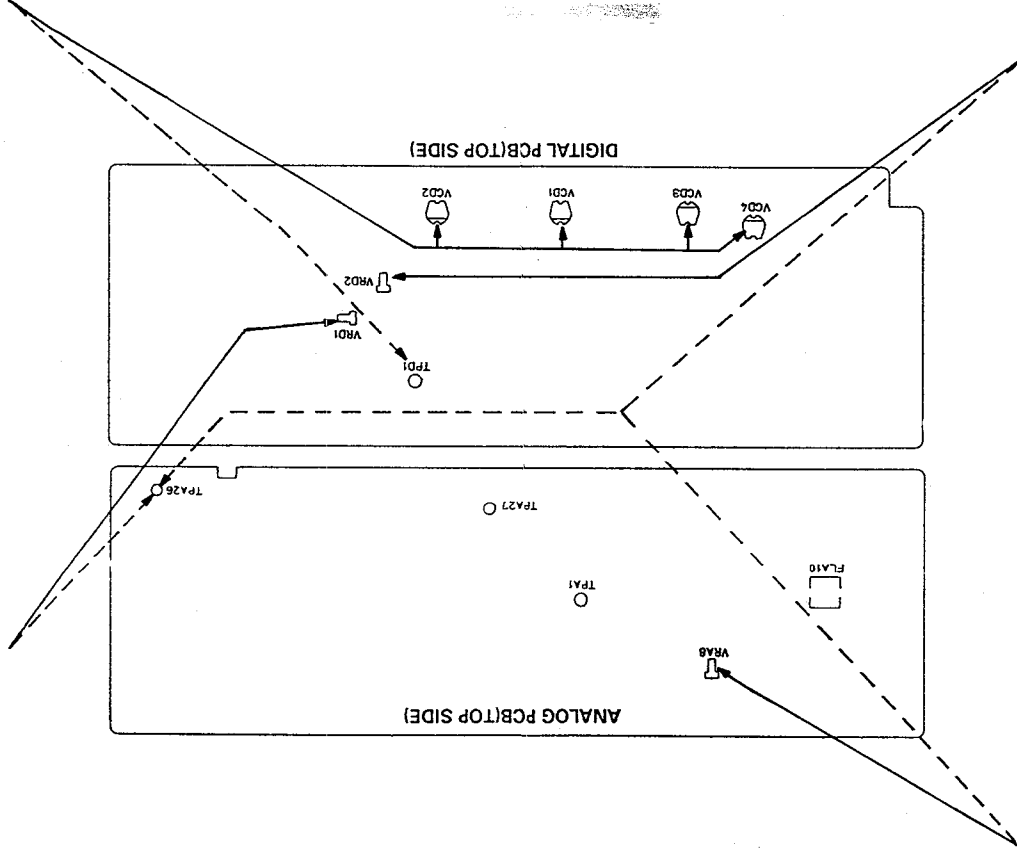
12 READ B-Y

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Select output mode selection key to NTSC 3.58.
4. Connect channel-1 oscilloscope probe to TPA14.
5. Adjust VRA9 so that TPA14 is $0.8V_{p-p} \pm 0.1V$.



1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Select output mode selection key to NTSC 3.58.
4. Connect channel-1 oscilloscope probe to TPA26.
5. Adjust VRD2 level so that TPA26 is 1.4Vp-p ± 0.1V.

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Select output mode selection key to NTSC 3.58.
4. Connect channel-1 oscilloscope probe to TPA26.
5. Adjust VRA8 level so that TPA26 is 0.6Vp-p ± 0.1V.



16 SUB CARRIER

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Connect frequency counter probe to TPD1.
4. Select output mode selection key to NTSC.
5. Adjust VCD3 for 3.579545MHz ± 25Hz.
6. Select output mode selection key to PAL.
7. Adjust VCD1 for 4.433619MHz ± 25Hz.
8. Select output mode selection key to PAL-N.
9. Adjust VCD4 for 3.582056MHz ± 25Hz.
10. Select output mode selection key to PAL-M.
11. Adjust VCD2 for 3.575611MHz ± 25Hz.

15 COLOR BALANCE

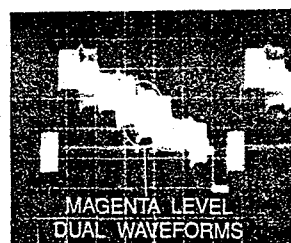
< Before Adjustment >

< After Adjustment >

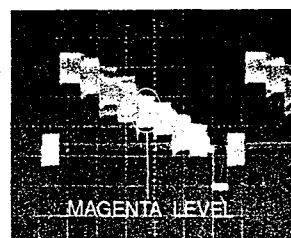
1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Select output mode selection key to NTSC 3.58.
4. Connect channel-1 oscilloscope probe to TPA26.
5. Adjust VRD1 so that noise of video signal is minimum as shown below.

17 SECAM BELL

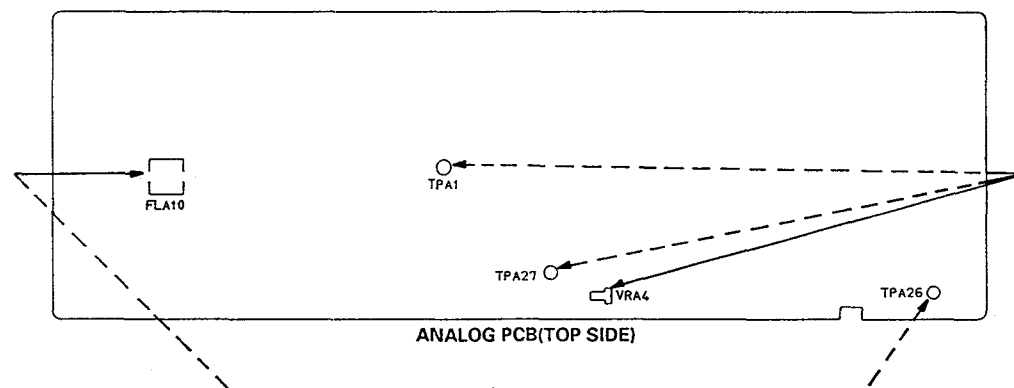
1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Select output mode selection key to SECAM.
4. Connect channel-1 oscilloscope probe to TPA26.
5. Adjust FLA10 so that magenta level of TPA26 is same as shown below.



< Before Adjustment >

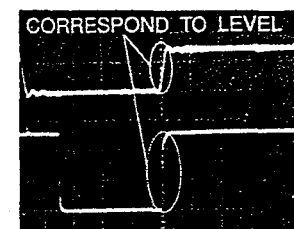


< After Adjustment >



18 WRITE PHASE

1. Apply PAL color bar signal to the video jack on the rear panel.
2. Select input mode selection key to PAL.
3. Select output mode selection key to PAL.
4. Connect channel-1 oscilloscope probe to TPA1 and channel-2 oscilloscope probe to TPA27.
5. Adjust VRA4 so that rising edge of H-SYNC is same as shown below.



8. P.C.BOARDS

		Page
8-1.	REGULATOR	8-1
8-2.	Hi-Fi I/O	8-2
8-3.	PRE-AMP Y/C	8-2
8-4.	MAIN	8-3
8-5.	TIMER	8-4
8-6.	FUNCTION	8-4
8-7.	Y/C SEPARATOR	8-5
8-8.	DIGITAL	8-5
8-9.	ANALOG	8-6

NOTE

● For P.C.Board

 : Pattern from the side which enables seeing. (Blue color)

 : Chip parts (Red color)

 : Pattern of the rear side. (Black color)

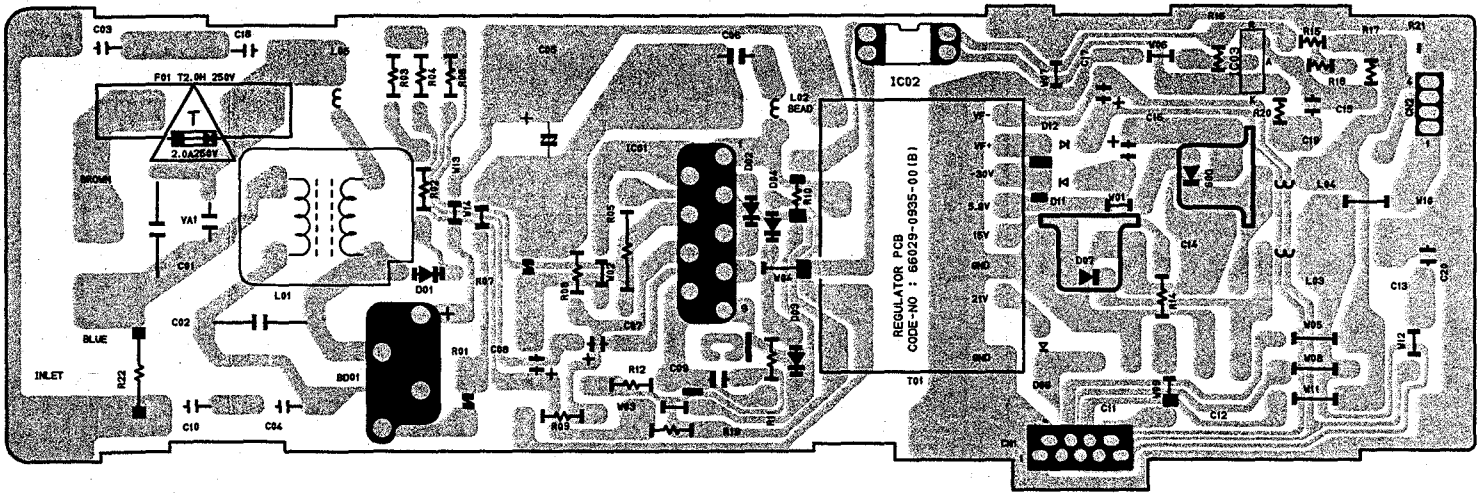
Caution :

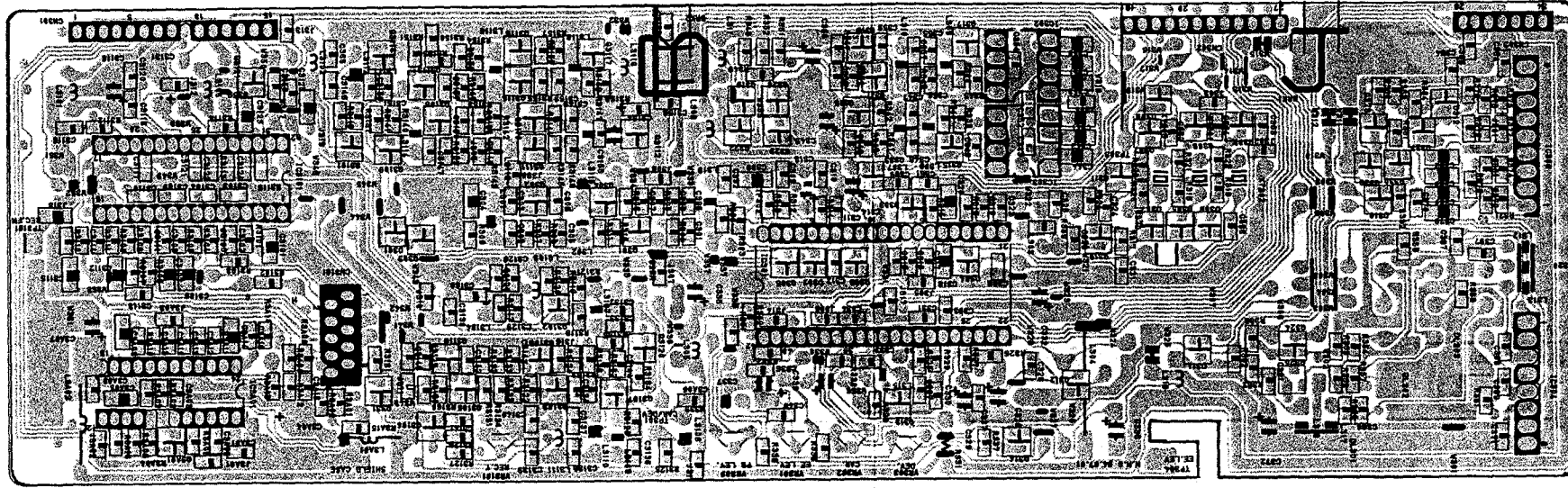
Parts face side (Top Side) : Parts on the parts face side seen from the parts pattern are indicated.
Pattern face side (Bottom Side) : Parts on the pattern face side seen from the parts face are indicated.



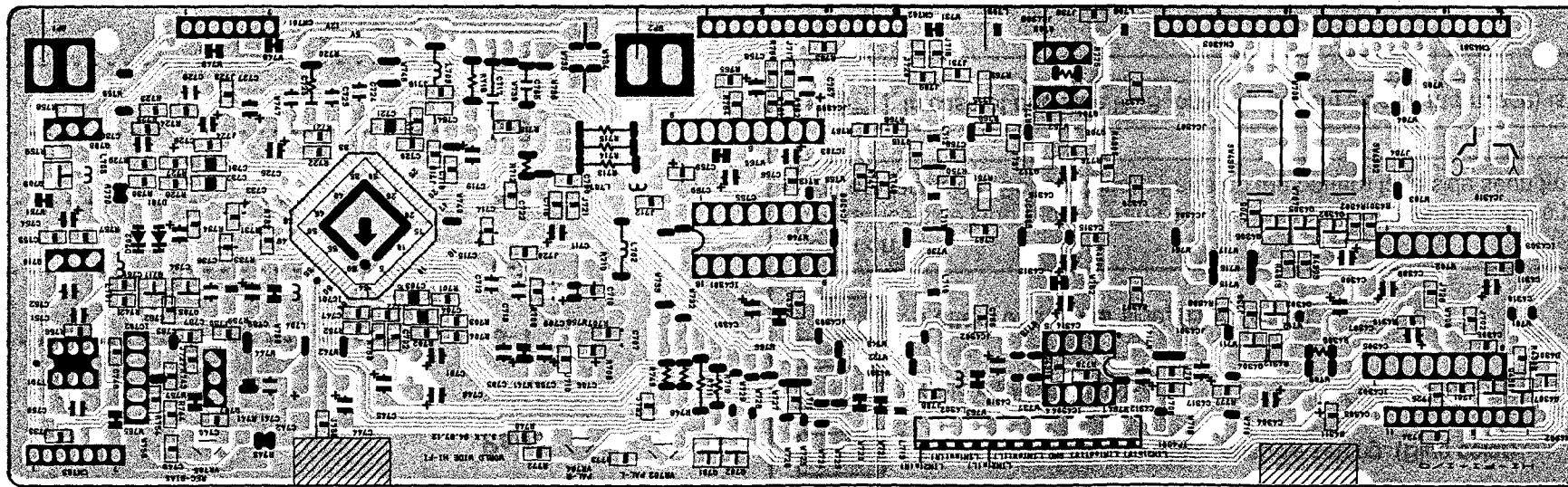
In case of one side PCB, only the bottom side (Pattern face) is described.

8-1. REGULATOR



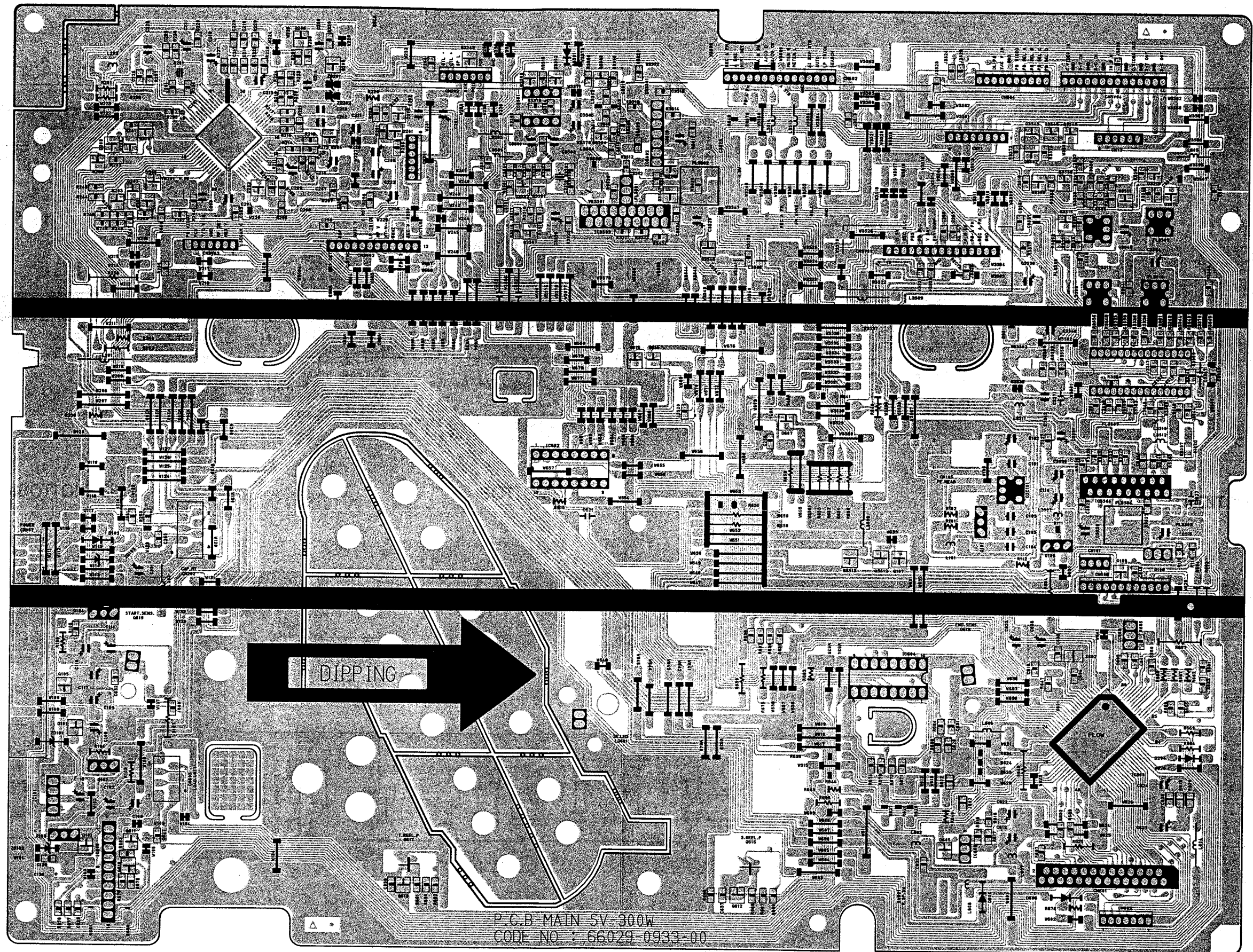


8-3. PRE-AMP Y/C

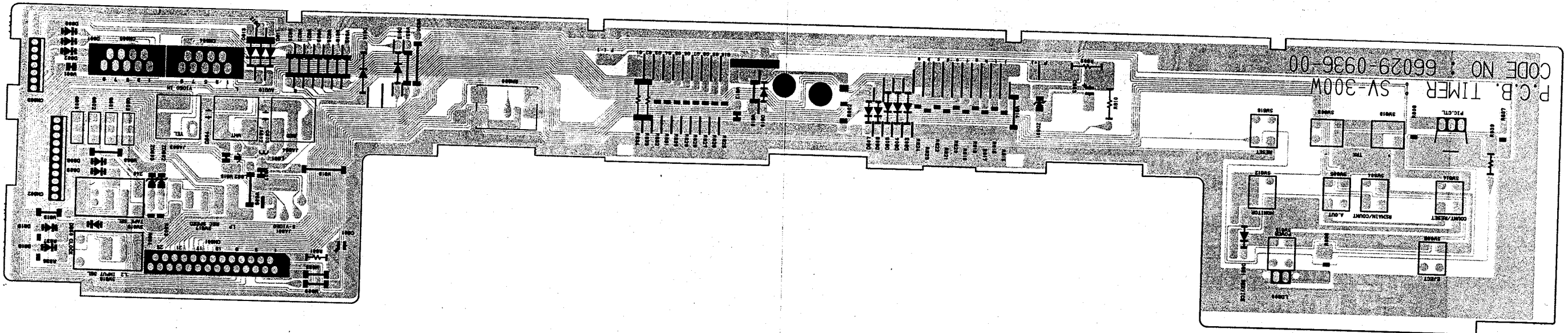


8-2. HI-FI I/O

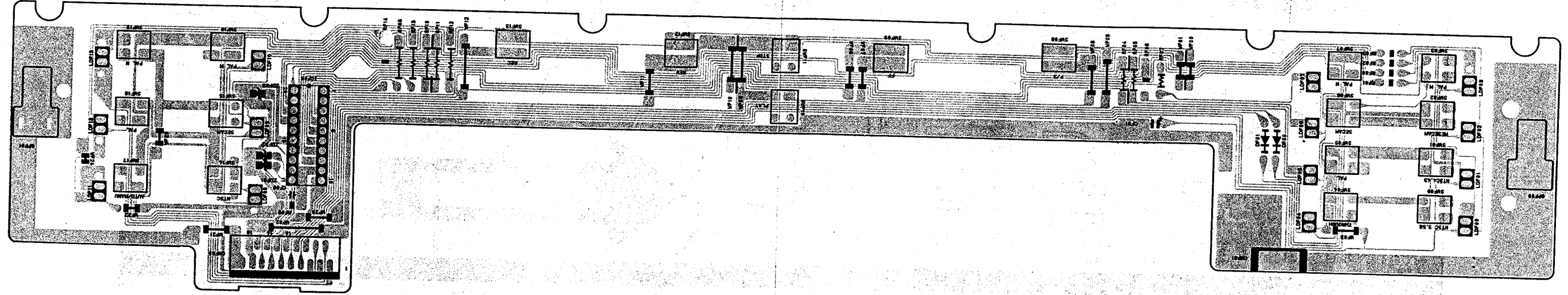
8-4. MAIN



8-5. TIMER

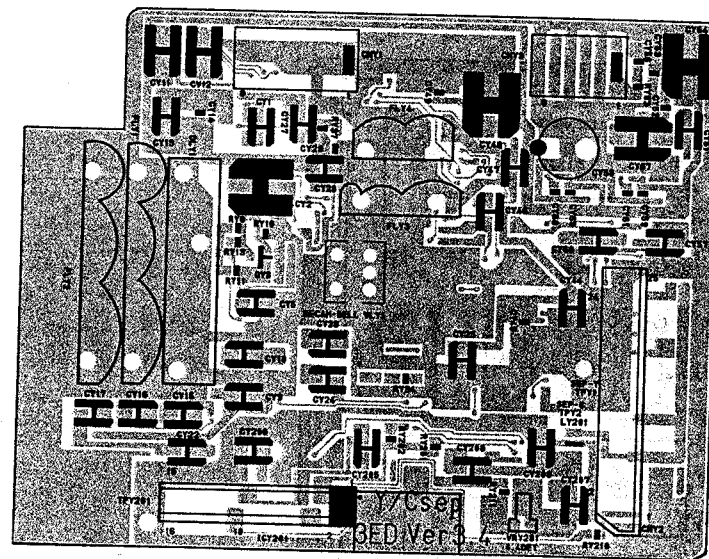


8-6. FUNCTION

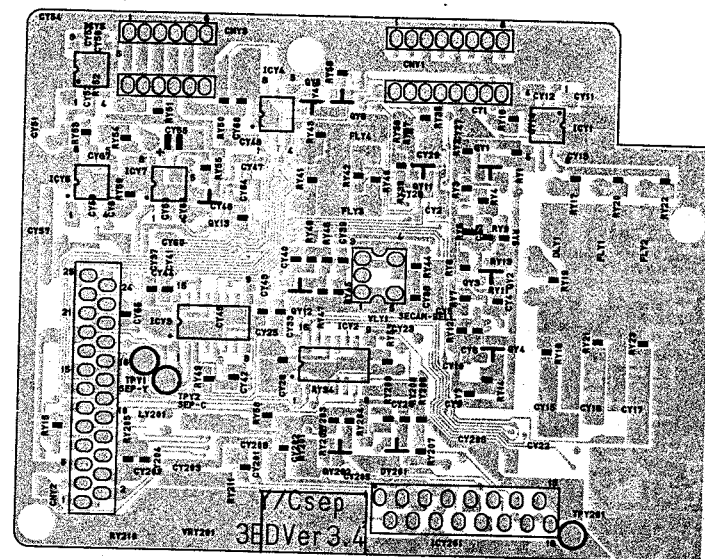


8-7. Y/C SEPARATOR

(TOP SIDE)

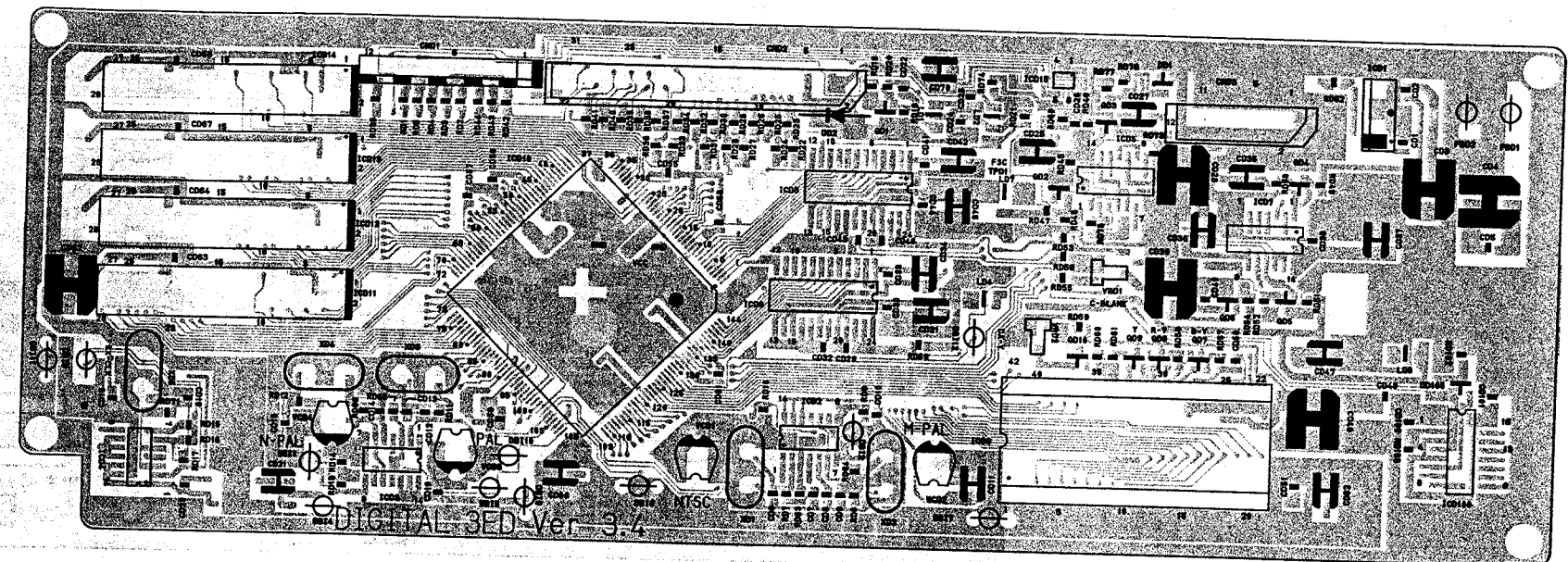


(BOTTOM SIDE)

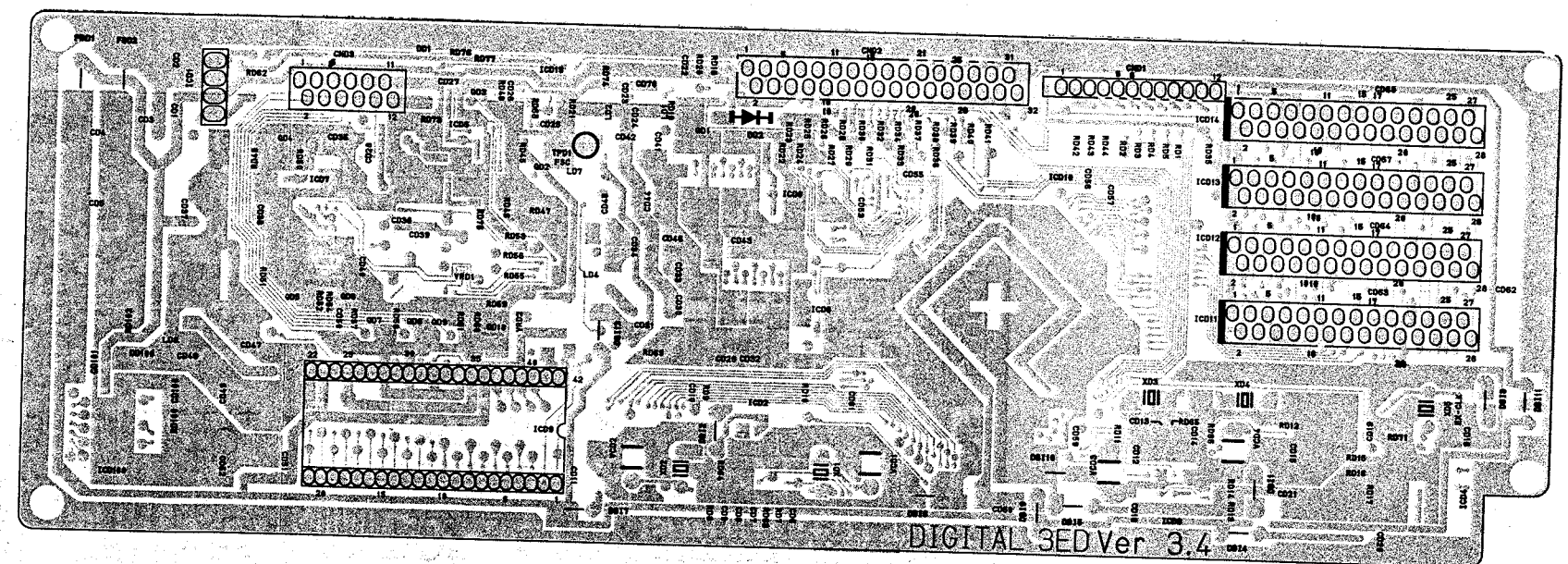


8-8. DIGITAL

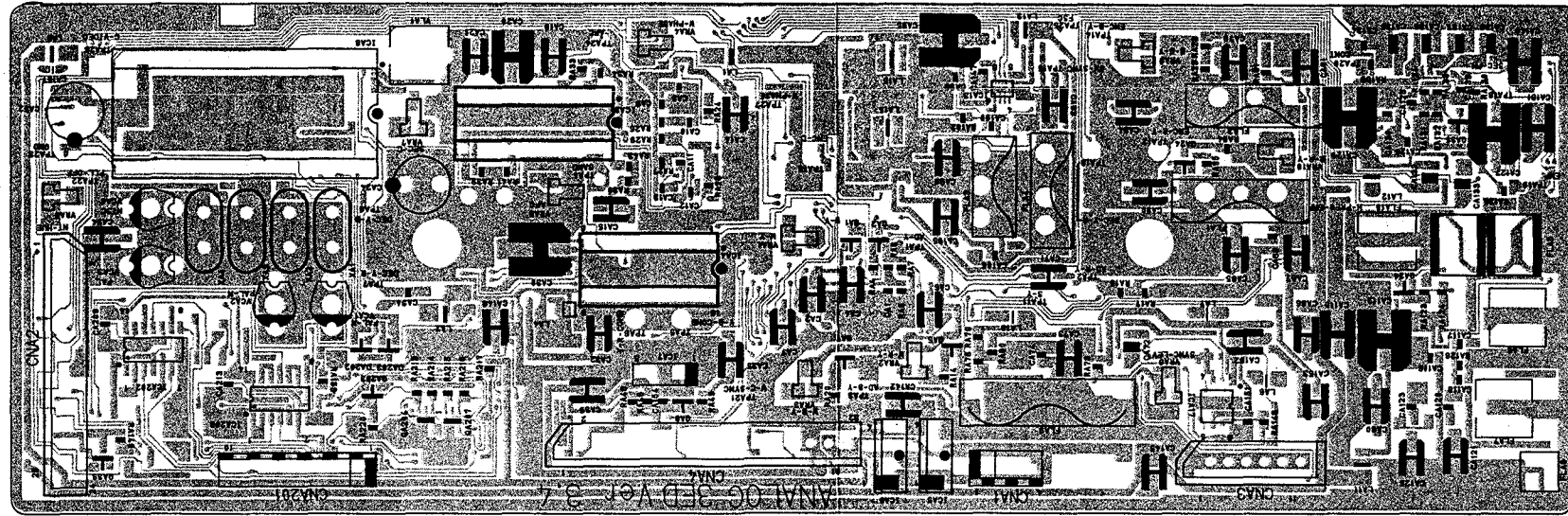
(TOP SIDE)



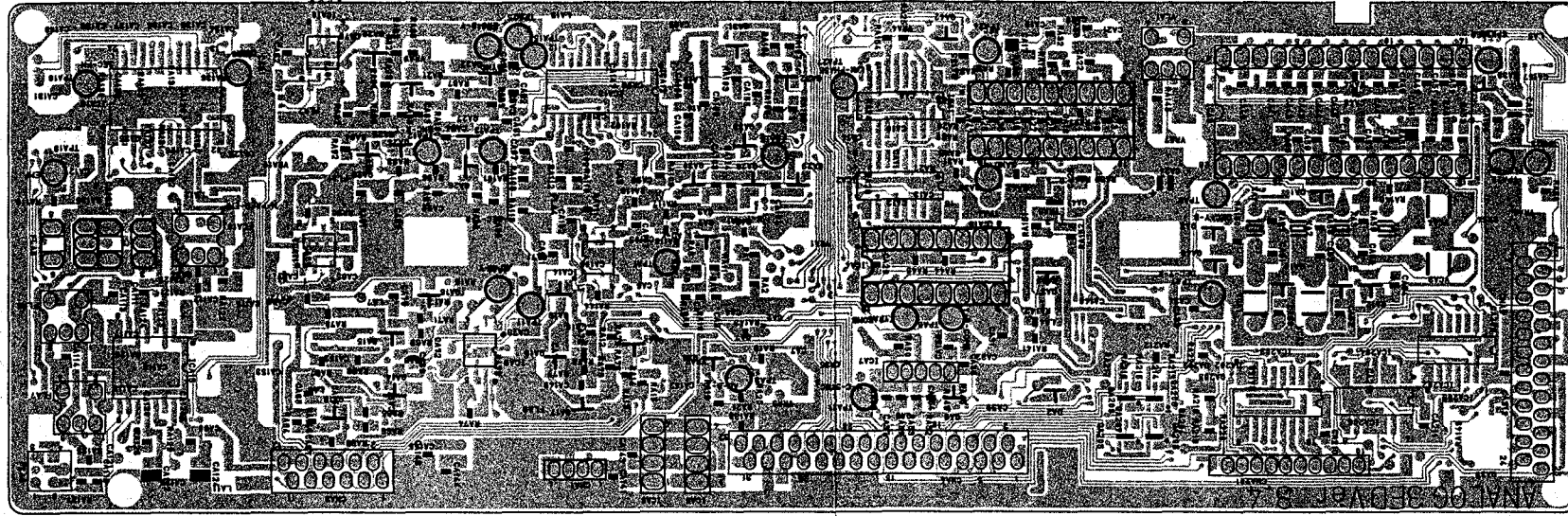
(BOTTOM SIDE)



(TOP SIDE)



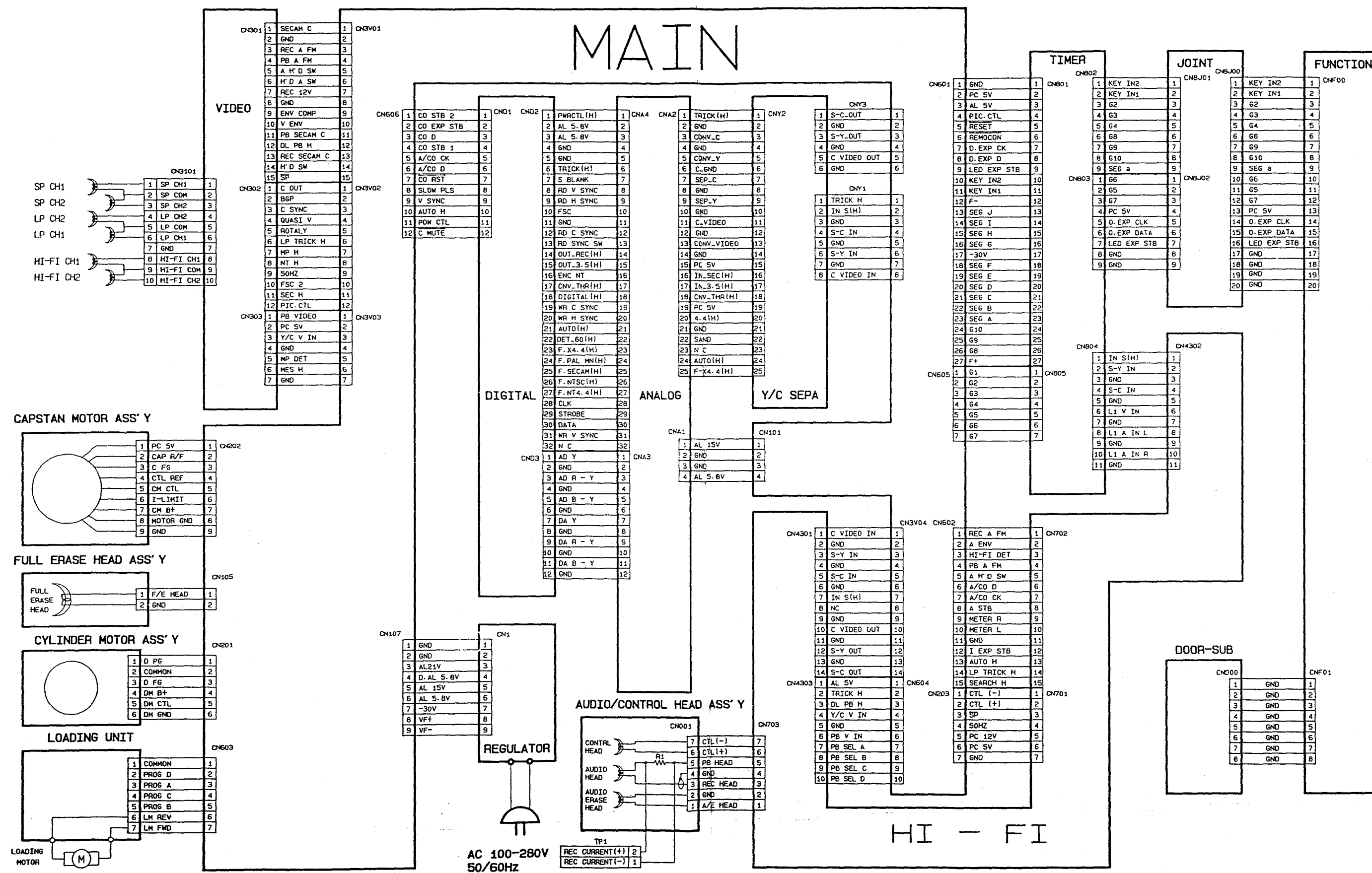
(BOTTOM SIDE)



9. BLOCK DIAGRAMS

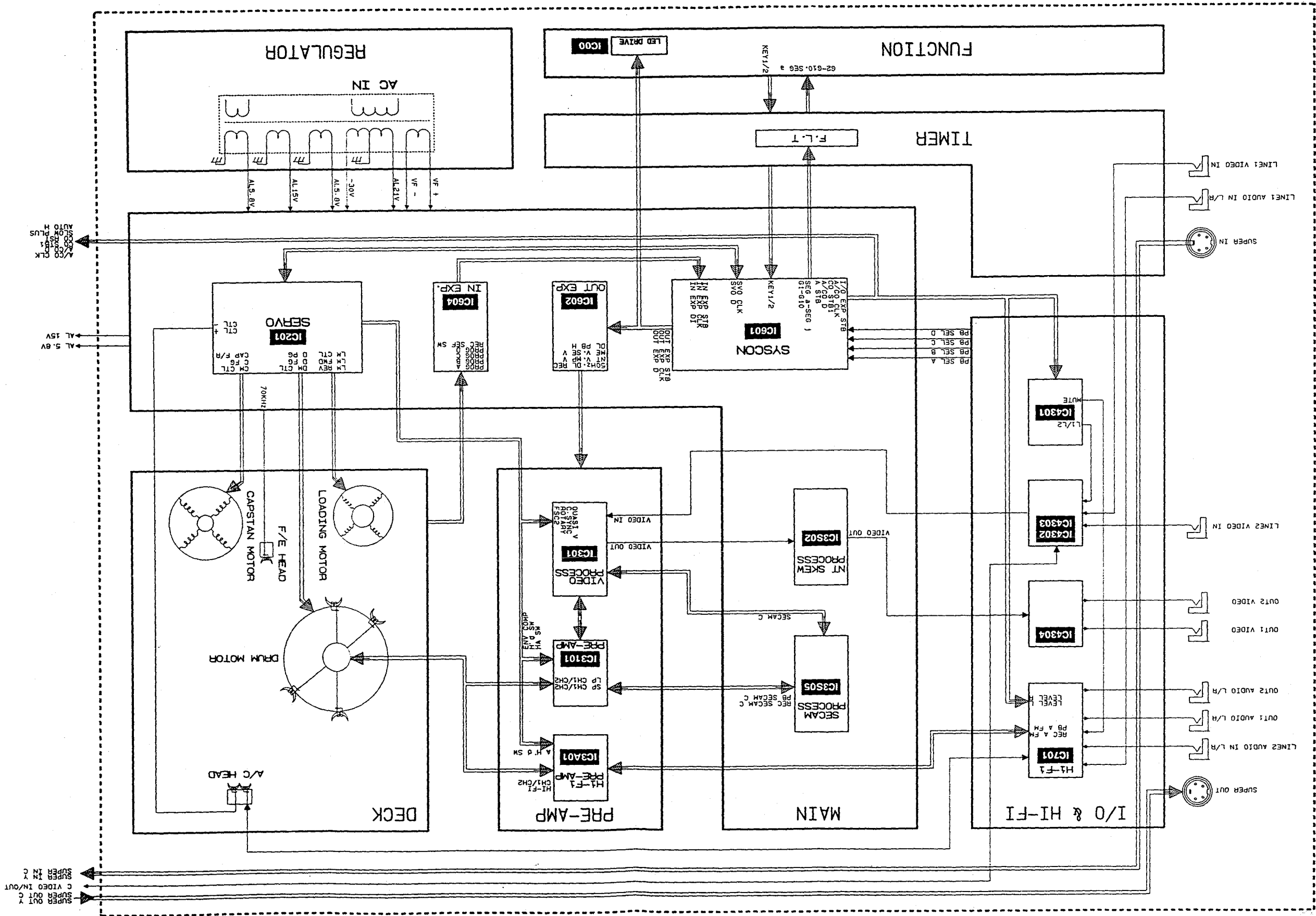
	Page
9-1. TOTAL WIRING DIAGRAM	9-2
9-2. OVERALL BLOCK DIAGRAM (VCR)	9-3
9-3. OVERALL BLOCK DIAGRAM (DIGITAL)	9-4

9-1. TOTAL WIRING DIAGRAM

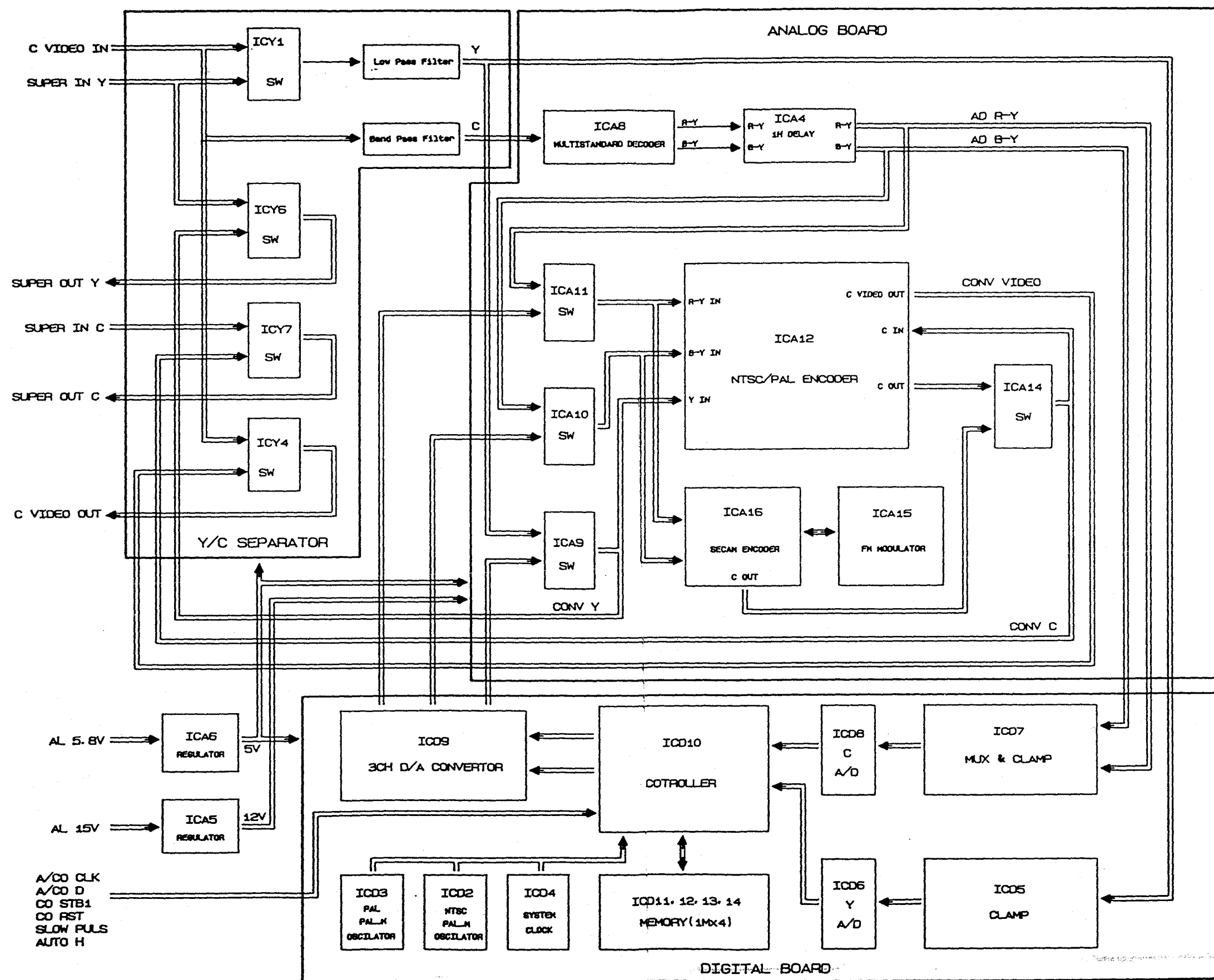


OVERALL BLOCK DIAGRAM (VCR)

9-2.



9-3. OVERALL BLOCK DIAGRAM (DIGITAL)



10. SCHEMATIC DIAGRAMS

◆ Block identification of main PCB	10-1
10-1. REGULATOR	10-2
10-2. POWER	10-3
10-3. SYSTEM CONTROL	10-4
10-4. SERVO	10-6
10-5. Y/C-2 (MAIN PCB)	10-8
10-6. PRE-AMP (PRE-AMP Y/C PCB)	10-10
10-7. Y/C-1 (PRE-AMP Y/C PCB)	10-12
10-8. Hi-Fi I/O	10-14
10-9. NT-PAL ENCODER	10-16
10-10. SECAM ENCODER	10-17
10-11. DECODER	10-18
10-12. AUTO DETECTOR	10-19
10-13. SYNC SEPARATOR	10-20
10-14. DIGITAL 1	10-21
10-15. DIGITAL 2	10-22
10-16. Y/C SEPARATOR	10-23
10-17. TIMER	10-24
10-18. FUNCTION/JOINT	10-25
10-19. REMOTE CONTROL	10-26

NOTE

- For Schematic Diagram
 - Resistors are in ohms, 1/8W unless otherwise noted.
 - Circled numbers refer to waveforms.

SPECIAL NOTE :

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

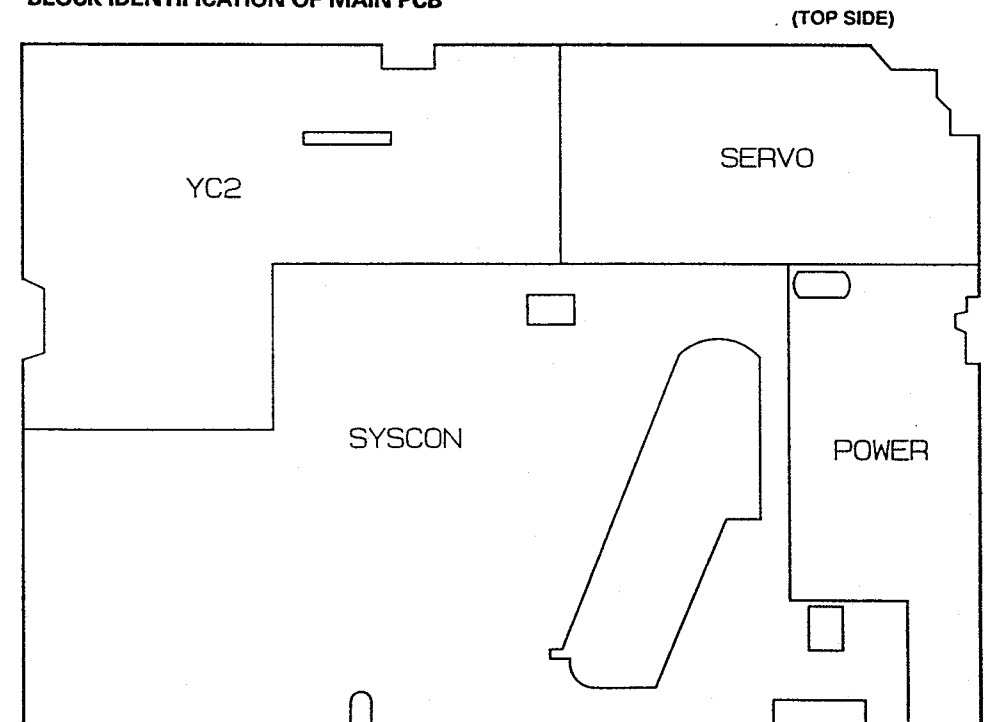
NOTE :

Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

IMPORTANT SAFETY NOTICES :

Components identified with the mark  have the special characteristics for safety when replacing any of these components. Use only the same type.

* BLOCK IDENTIFICATION OF MAIN PCB



10. SCHEMATIC DIAGRAMS

◆ Block identification of main PCB	10-1
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NOTE :

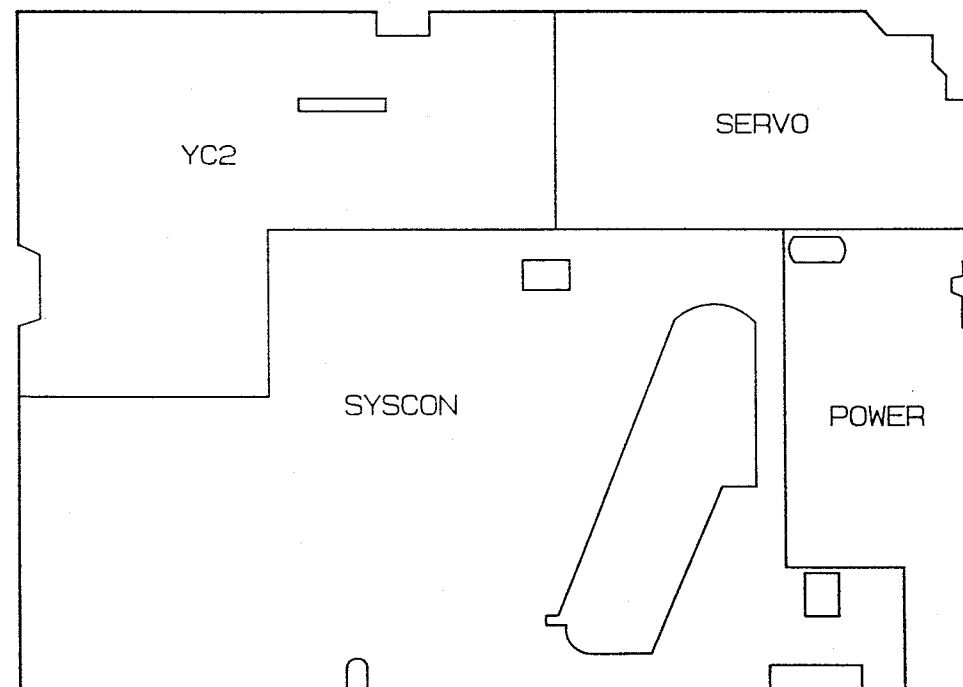
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* BLOCK IDENTIFICATION OF MAIN PCB

(TOP SIDE)



10. SCHEMATIC DIAGRAMS

◆ Block identification of main PCB	10-1
10-1. REGULATOR	10-2
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NOTE:

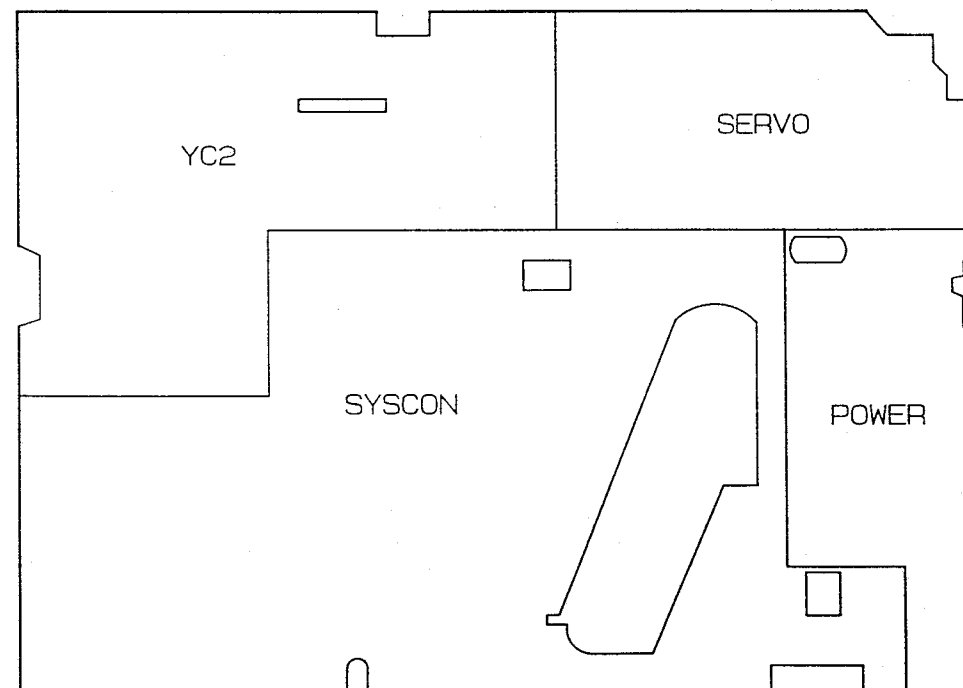
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* BLOCK IDENTIFICATION OF MAIN PCB

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10. SCHEMATIC DIAGRAMS

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NOTE

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NOTE :

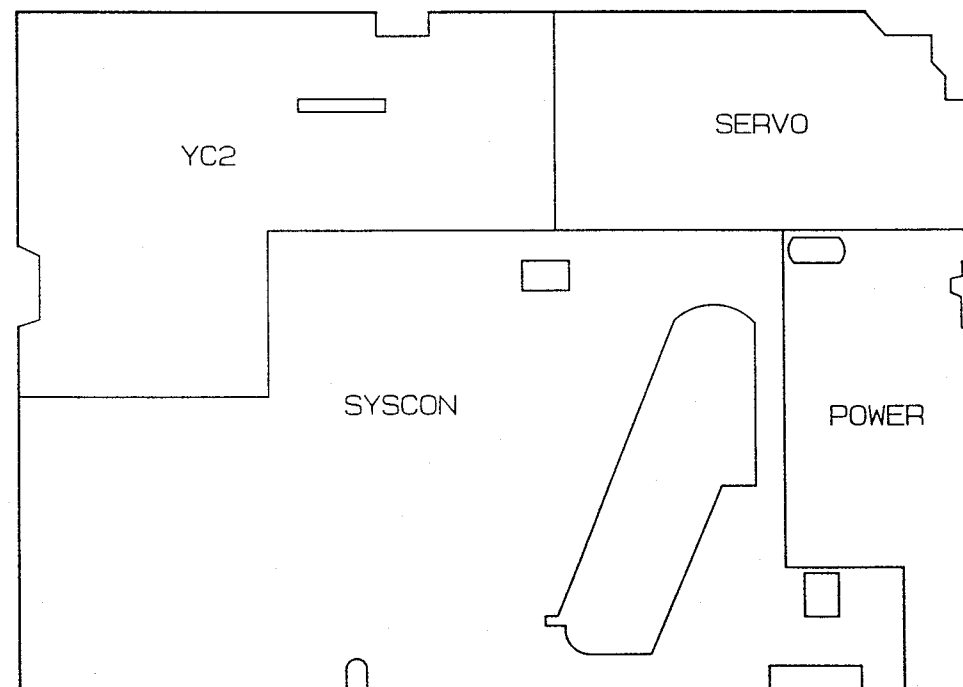
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

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* BLOCK IDENTIFICATION OF MAIN PCB

(TOP SIDE)



10. SCHEMATIC DIAGRAMS

◆ Block identification of main PCB	10-1
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NOTE

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 - Resistors are in ohms, 1/8W unless otherwise noted.
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NOTE :

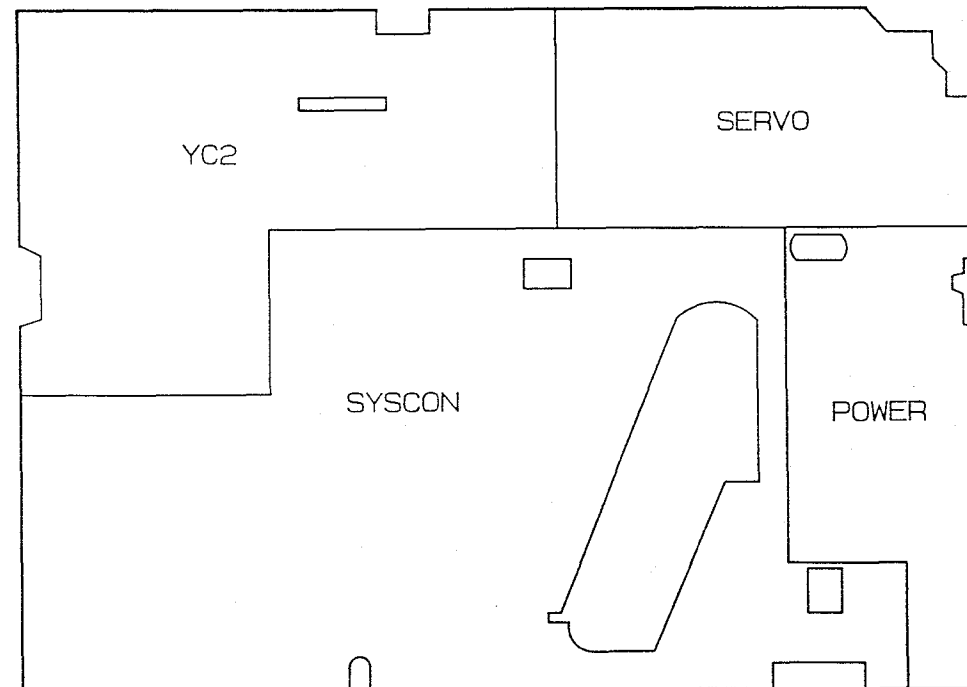
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

IMPORTANT SAFETY NOTICES :

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* BLOCK IDENTIFICATION OF MAIN PCB

(TOP SIDE)



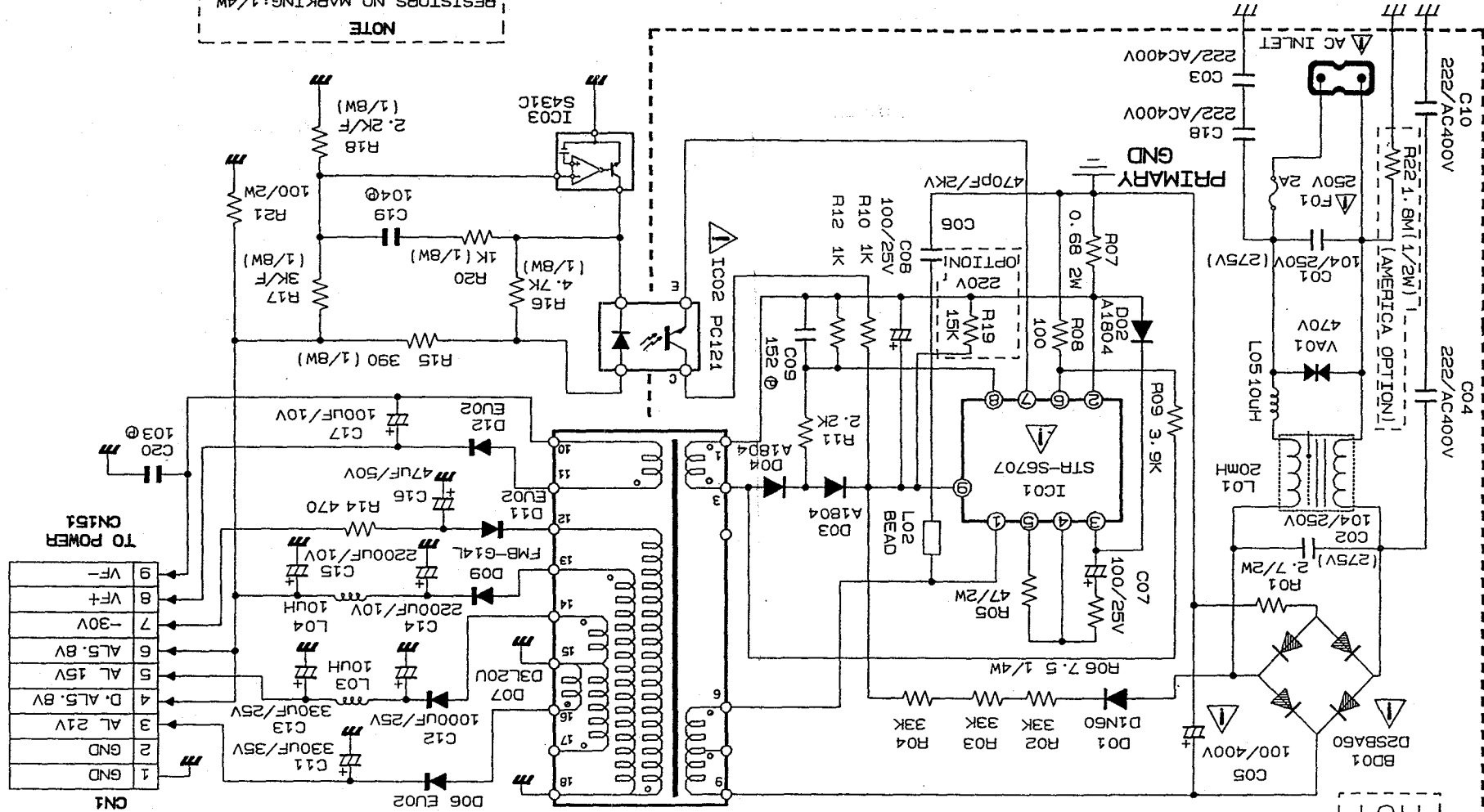
REGULATOR

10-1. REGULATOR

REGULATOR

NOTE : IF YOU CHECK THE VOLTAGE FOR PARTS IN HOT CIRCUIT, YOU MUST USE **PRIMARY GND** AS A COMMON TERMINAL.

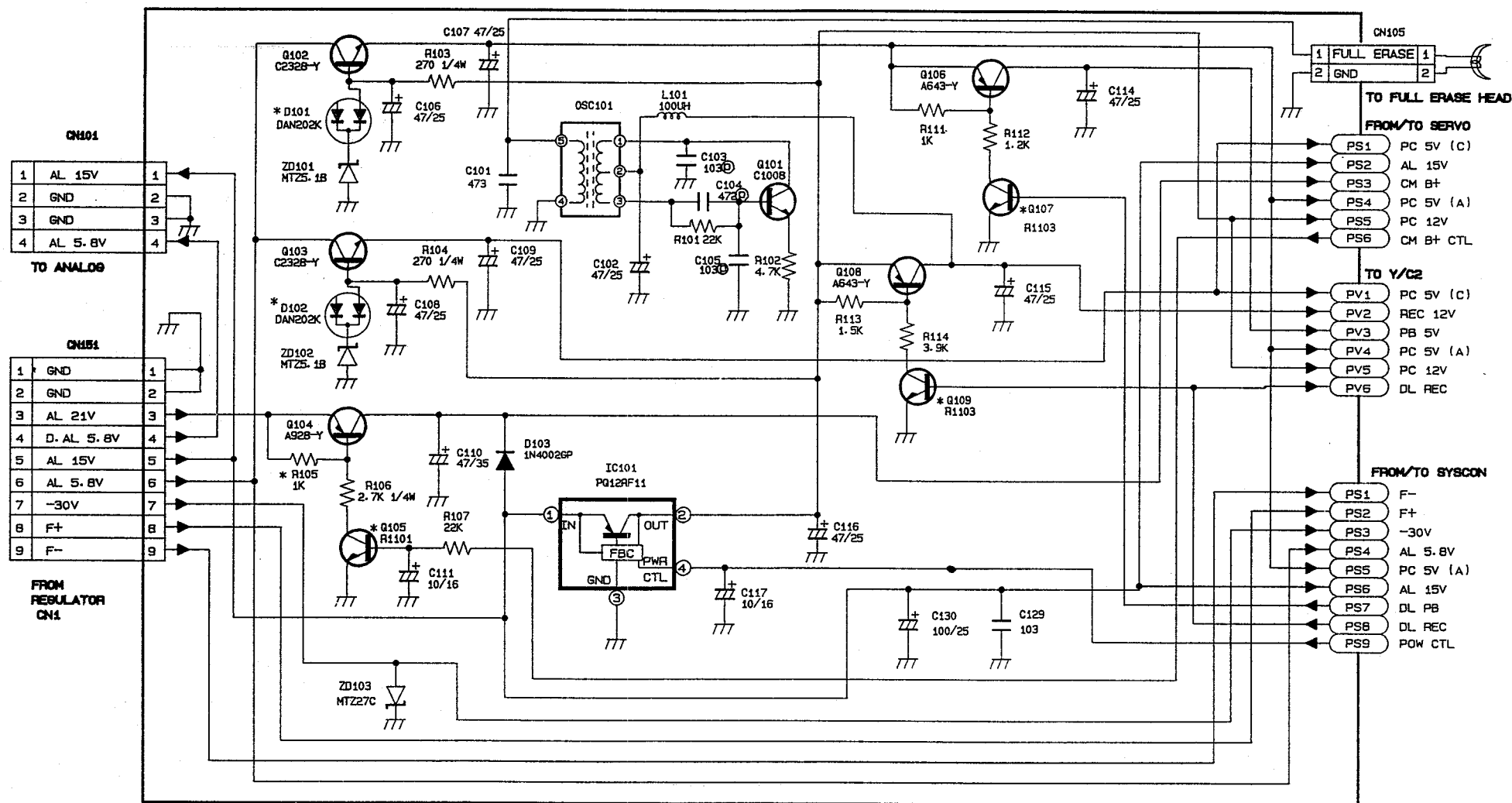
IMPORTANT SAFETY NOTICE
 COMPONENT IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENT. USE ONLY THE SAME TYPE.



NOTE
 RESISTORS NO MARKING: 1/4W
 C-ELEC. NO MARKING: 105° C

POWER

10-2. POWER

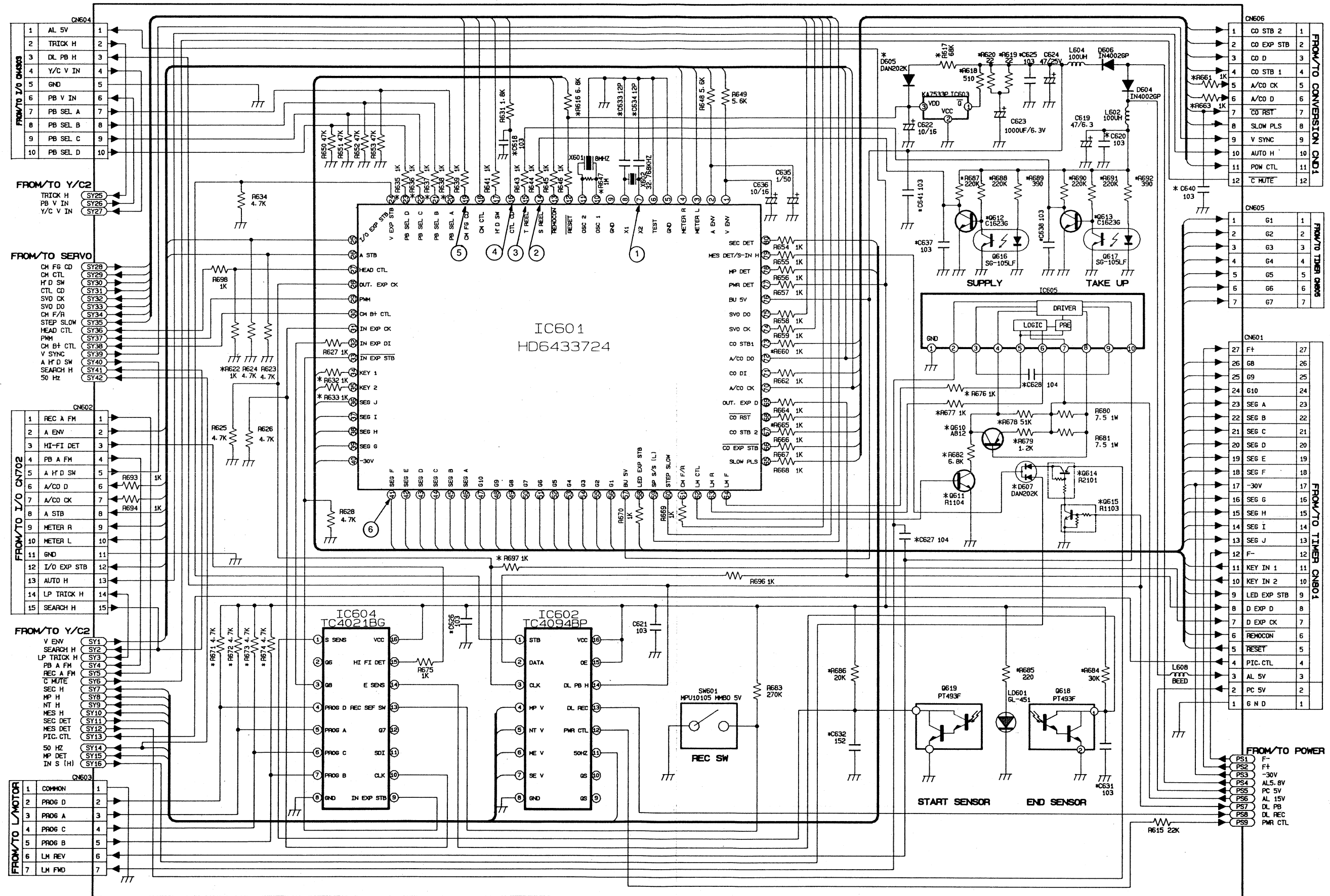


* : CHIP PARTS

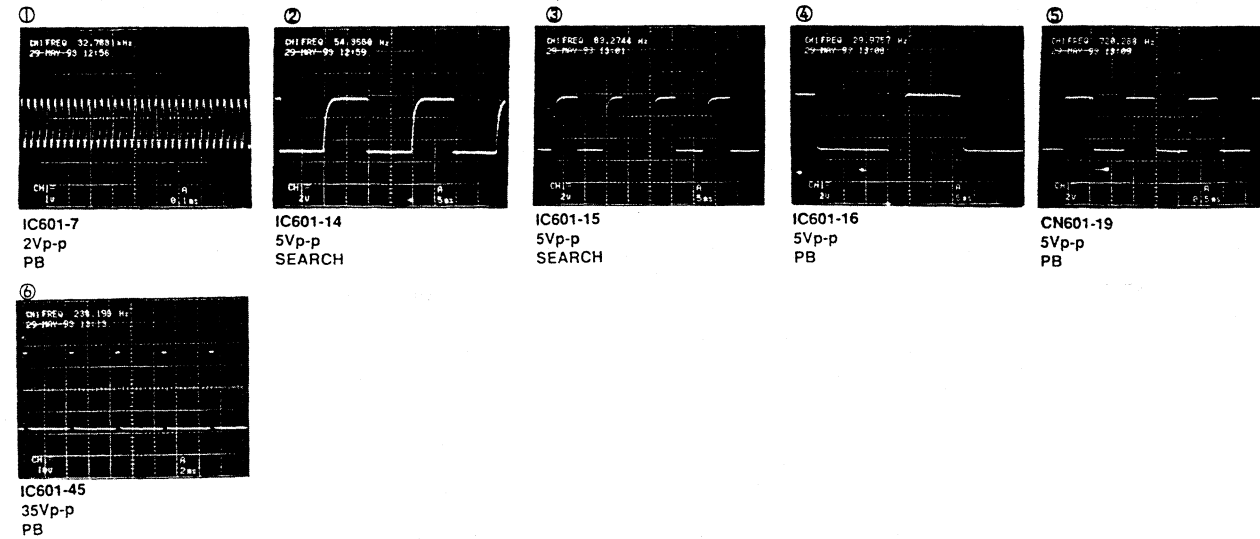
SYSTEM CONTROL

10-3. SYSTEM CONTROL

SYSTEM CONTROL



SYSTEM CONTROL



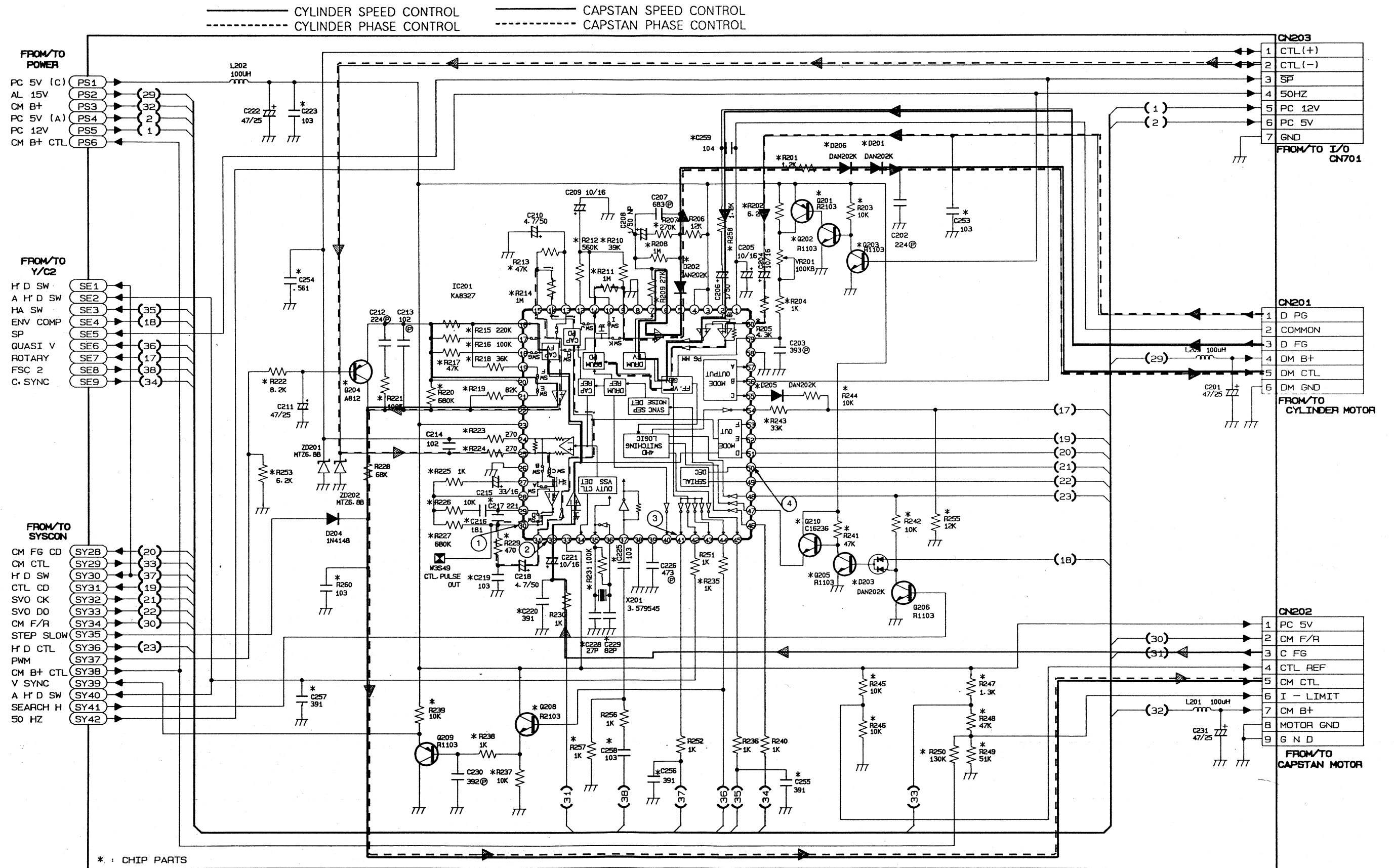
SYSTEM CONTROL

IC601							
MODE PIN NO	STOP	REC	PLAY	MODE PIN NO	STOP	REC	PLAY
1	0.1	0.1	3.5	41	-23	-21	-24
2	0.1	0.1	2.4	42	-21	-21	-24
3	1.5	1.3	1.3	43	-21	-15	-15
4	1.5	1.4	1.6	44	-17.9	-18	-18
5	0	0	0	45	-12.19	-18	-15
6	0	0	0	46	-15	-9.3	-9.4
7	1.4	1.4	1.4	47	-25	-25	-25
8	1.3	1.3	1.3	48	-25	-25	-25
9	0	0.06	0.06	49	-25	-25	-25
10	2.3	2.3	2.3	50	-25	-25	-25
11	2.3	2.5	2.5	51	-25	-25	-25
12	5	5	5	52	-25	-25	-25
13	5	5	5	53	-25	-25	-25
14	4.8			54	-25	-25	-25
15	4.8			55	-25	-25	-25
16	5	2.9	2.2	56	-25	-25	-25
17	0	2.4	2.4	57	5	5	5
18	0.2	5	5	58	3.2	3.5	3.5
19	0	2.5	2.5	59	0.1	2.5	2.5
20	0	0.05	0.05	60	0.24	0.02	0.02
21	0	0.05	0.05	61	5	5	5
22	0	0.05	0.05	62	5	5	5
23	0	0.05	0.05	63	4.8	4.8	4.8
24	0	0.01	0.01	64	4.8	4.8	4.8
25	0	0.01	0.01	65	0.02	0.02	0.02
26	0.2	0.2	0.2	66	4.9	4.9	4.9
27	0.4	0.46	0.46	67	0.02	0.02	0.02
28	0.9	0.8	0.9	68	5	5	5
29	5	5	5	69	0.2	0.23	0.24
30	0	0	0	70	3.4	0/4.9	0/4.9
31	0.08	0.08	0.09	71	4.9	4.9	4.9
32	0.09	4.96	4.9	72	0.1	0.1	0.1
33	4.7	4.8	4.7	73	0.02	0.02	0.02
34	1.2	0.33	0.33	74	0.3	0.3	0.3
35	2.9	3.3	2.9	75	0.13	0.13	0.14
36	-19	-18	-21	76	5	5	5
37	-22	-12	-15	77	4.97	4.97	4.96
38	-10	-9.3	-18	78	0.07	0.09	0.09
39	-22	-20	-18	79	0.1	0.05	0.05
40	-29	-27	-27	80	0.02	0.02	0.02

SERVO

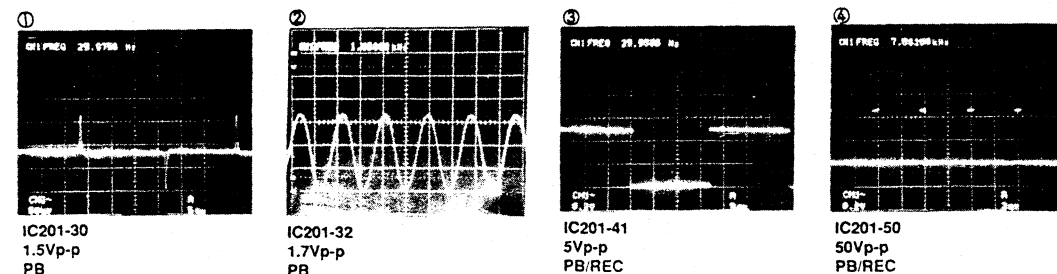
SERVO

10-4. SERVO



SERVO

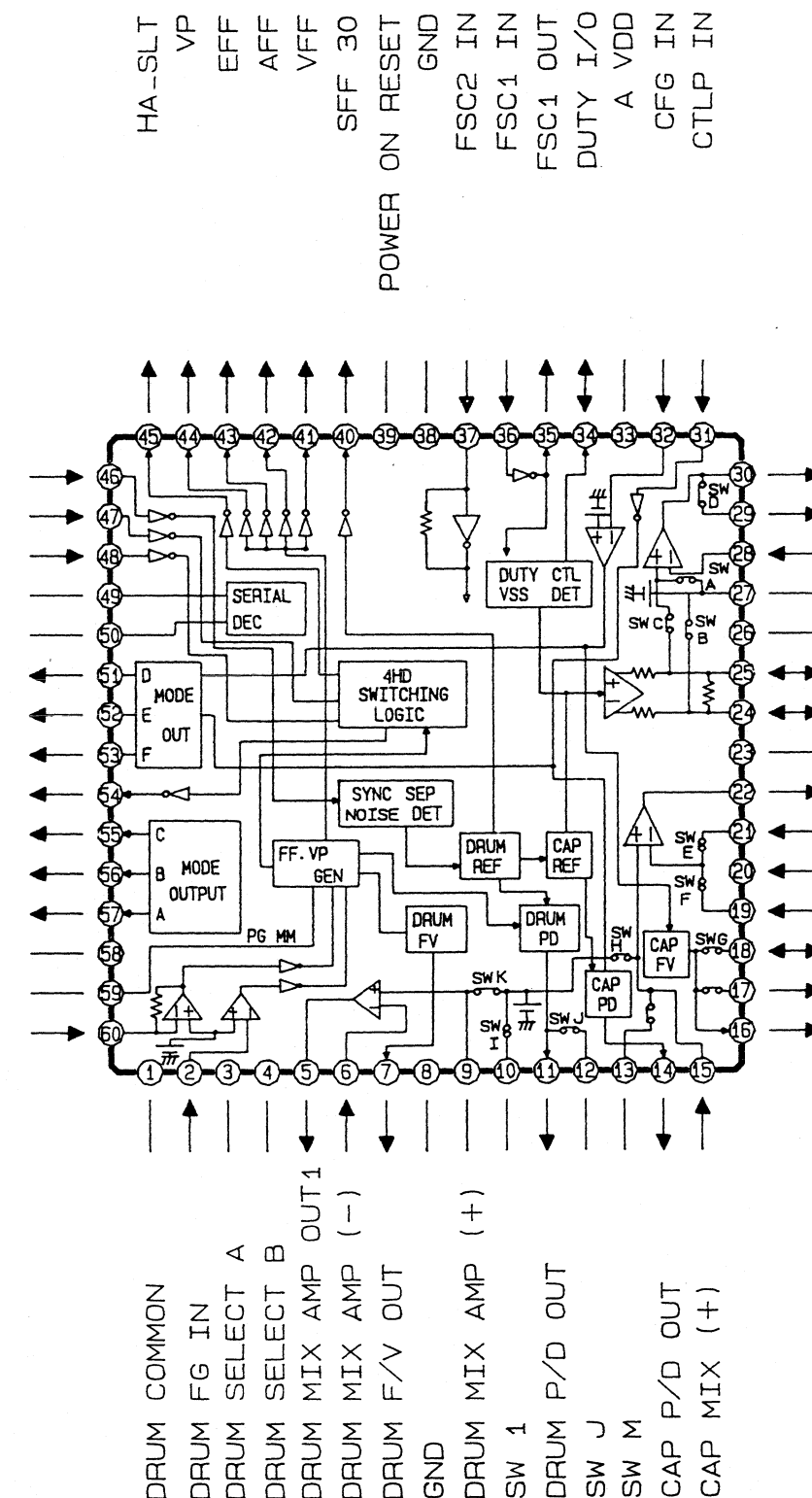
SERVO



MODE PIN NO	STOP	REC	PLAY	MODE PIN NO	STOP	REC	PLAY
IC201							
1	2.5	2.5	2.5	31	2.5	2.5	-
2	2.5	2.5	2.5	32	2.5	-	-
3	5	5	5	33	5	5	5
4	5	5	5	34	5	0/5	0/5
5	1.6	1.6	1.6	35	-	-	-
6	2.5	2.5	2.5	36	-	-	-
7	2.5	2.5	2.5	37	-	-	-
8	0	0	0	38	0	0	0
9	2.5	2.5	2.5	39	5	5	5
10	2.5	2.5	2.5	40	0/5	0/5	0/5
11	2.5	2.5	2.5	41	0/5	0/5	0/5
12	2.3	2.3	2.3	42	0/5	0/5	0/5
13	2.5	2.5	2.5	43	0/5	0/5	0/5
14	0/5	2.5	2.5	44	0	0	0
15	2.5	2.5	2.5	45	0/5	0/5	0/5
16	0	2.5	2.5	46	4.2	4.2	4.2
17	0	2.5	2.5	47	2.8	2.8	2.8
18	0	2.5	2.5	48	5	5	5
19	0	2.5	2.5	49	0.6/5	0.6/5	0.6/5
20	0	2.5	2.5	50	0.6/5	0.6/5	0.6/5
21	0	2.7	2.7	51	5	5	0/5
22	0	2.7	2.7	52	5	5	0/5
23	5	5	5	53	5	5	0/5
24	2.5	-	2.5	54	0/5	0/5	0/5
25	2.5	-	2.5	55	0	0	0
26	0	0	0	56	0	0	0
27	2.5	2.5	2.5	57	5	5	5
28	2.5	2.5	2.5	58	0	0	0
29	0	0	-	59	-	-	-
30	2.5	2.5	-	60	2.5	2.5	2.5

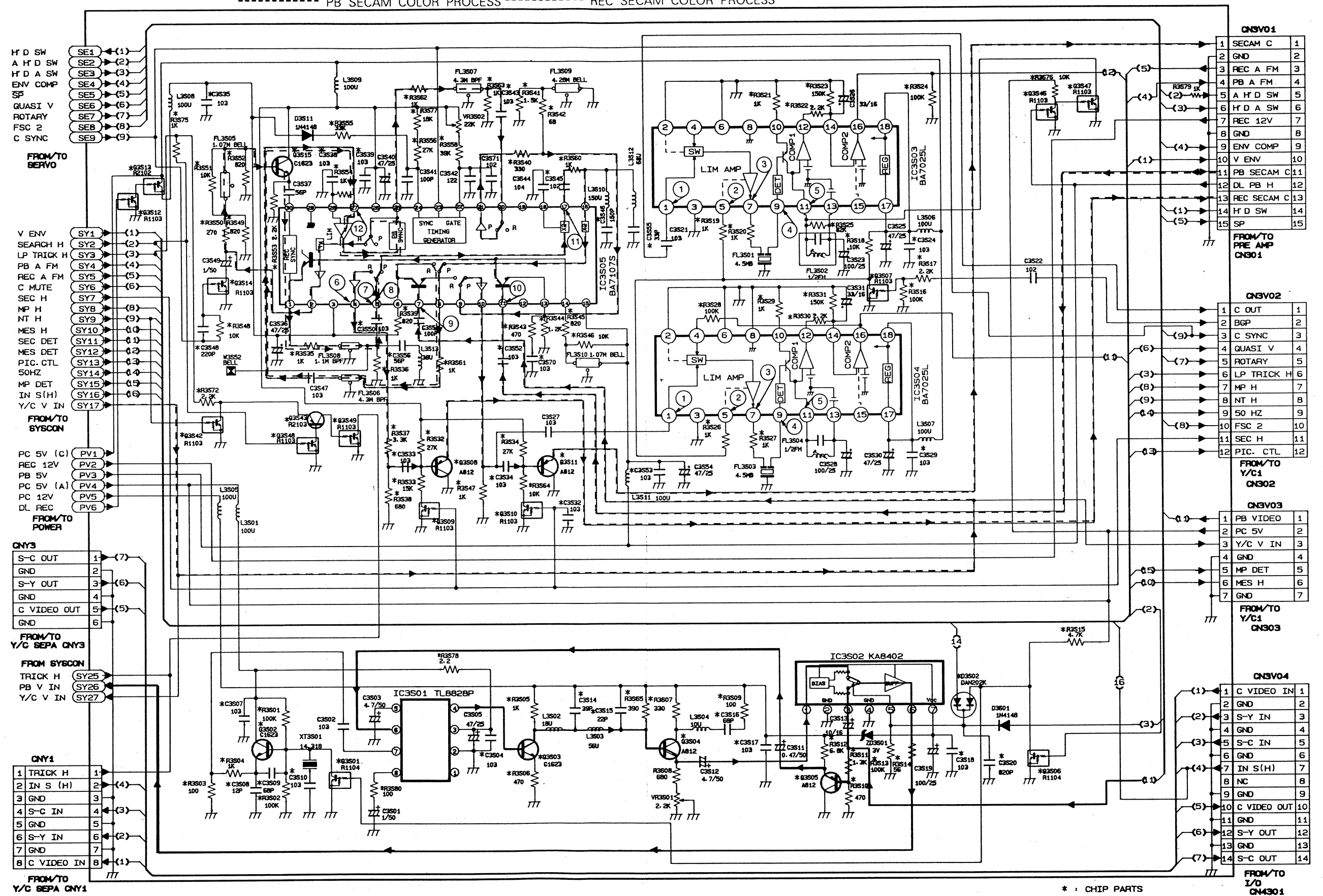
CMP SYNC
 ENV_DET
 SUB_H
 SERIAL DATA
 SERIAL CLOCK
 MODE OUT D
 MODE OUT E
 MODE OUT F
 C_ROT
 MODE OUT C
 MODE OUT B
 MODE OUT A
 D GND
 PG M. M
 DRUM PG IN

IC201 KA8327



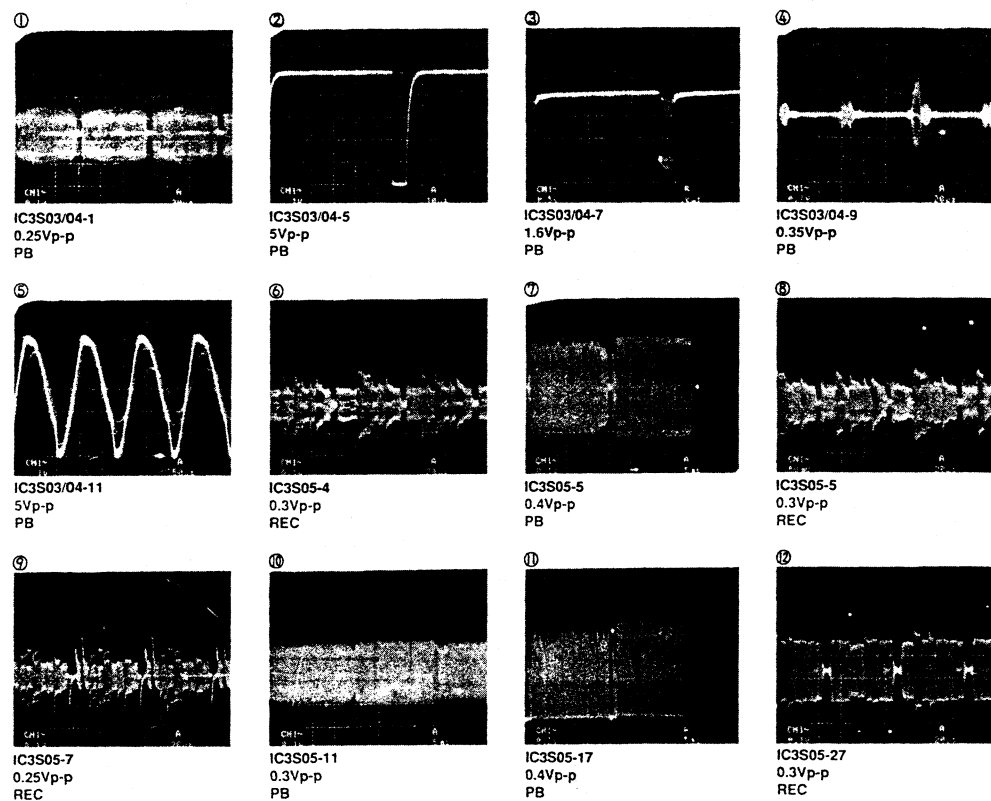
10-5. Y/C-2 (MAIN PCB)

————— PB VIDEO OUT PROCESS ————— FPS & RPS VIDEO OUT PROCESS (NTSC, PAL-M SP MODE ONLY)
 ----- PB SECAM COLOR PROCESS ----- REC SECAM COLOR PROCESS



Y/C - 2

Y/C - 2



IC3S01			
MODE	STOP	REC	PLAY
1	0	0	0
2	0	0	0
3	0	0	5
4	0	0	3.6
5	0	0	3.5
6	0	0	2.4
7	0	0	1.6
8	0	0	5.2

IC3S02			
MODE	STOP	REC	PLAY
1	6.3	6.3	6.3
2	0	0	0
3	6.3	6.3	6.3
4	0	0	0
5	4.2	4.2	4.2
6	5.5	5.5	5.5
7	9	9	9

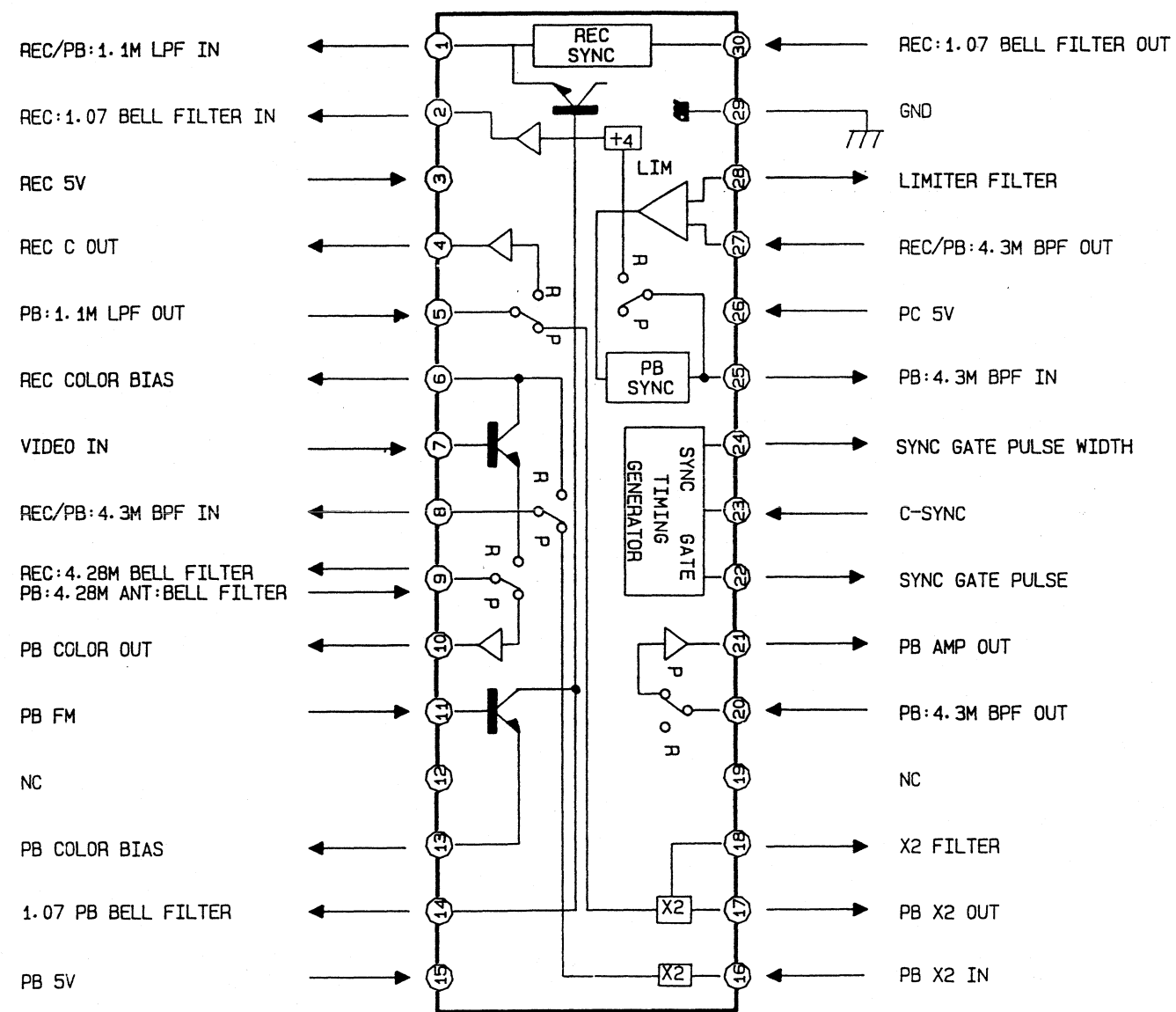
PAL MODE			
IC3S04 (1) IC3S03			
MODE	STOP	REC	PLAY
1	3.75	3.7	3.86
2	0	0	1.06
3	0	0	0
4	3.75	3.7	3.85
5	4.4	4.39	4.48
6	0	0	0
7	4.53	4.5	4.67
8	0	0	0
9	3.1	3.1	3.2
10	0.1	0.1	0.1
11	3.7	3.7	3.79
12	0.3	0.28	4.46
13	3.7	3.7	3.8
14	0.2	0.18	4.37
15	0	3.7	0
16	0	0	0
17	5.14	5.14	5.24
18	5.14	5.13	5.24

MESECAM MODE			
IC3S03			
MODE	STOP	REC	PLAY
1	3.75	3.74	3.84
2	0	0	1.06
3	0	0	0
4	3.75	3.74	3.85
5	4.4	4.39	4.48
6	0	0	0
7	4.53	4.53	4.67
8	0	0	0
9	0	0	3.2
10	0.1	0.1	0.1
11	0	0	3.88
12	0	0	0
13	3.75	0	3.87
14	0	0	0
15	0	0	0
16	0	0	4.6
17	5.14	5.24	5.26
18	5.14	5.12	5.23

SECAM MODE			
IC3S04			
MODE	STOP	REC	PLAY
1	3.75	3.7	3.86
2	0	0	1.06
3	0	0	0
4	3.75	3.7	3.85
5	4.4	4.39	4.48
6	0	0	0
7	4.53	4.5	4.67
8	0	0	0
9	3.1	3.1	3.2
10	0.1	0.1	0.1
11	3.7	3.7	3.79
12	0.3	0.28	4.46
13	3.7	3.7	3.8
14	0.2	0.18	4.37
15	0	3.7	0
16	4.6	4.6	4.6
17	5.14	5.14	5.24
18	5.14	5.13	5.24

IC3S05			
MODE	STOP	REC	PLAY
1	2.8	2.75	3.72
2	3.3	3.25	0
3	5	4.96	0.5
4	2.1	2.1	0
5	1.4	1.4	1.2
6	4.3	4.2	0.5
7	1.7	1.68	0.3
8	2.8	2.76	2.7
9	1.8	1.8	1.3
10	0	0	2.3
11	0.3	0.2	3.1
12	0	0	0
13	0	0	1.7
14	0.7	0.7	4.2
15	0.7	0.6	5.2
16	0.1	0.1	2.7
17	0.1	0.1	3.59
18	0.7	0.6	2.2
19	0	0	0
20	1.1	1.1	1.4
21	1.8	1.8	1.6
22	1	1	1
23	0	0	0
24	0.2	0.2	0.3
25	3.67	3.6	3.8
26	5.1	5.1	5.2
27	3.1	3.1	3.2
28	3.1	3.1	3.2
29	0	0	0
30	2.63	2.5	0

IC3S05 BA7107S

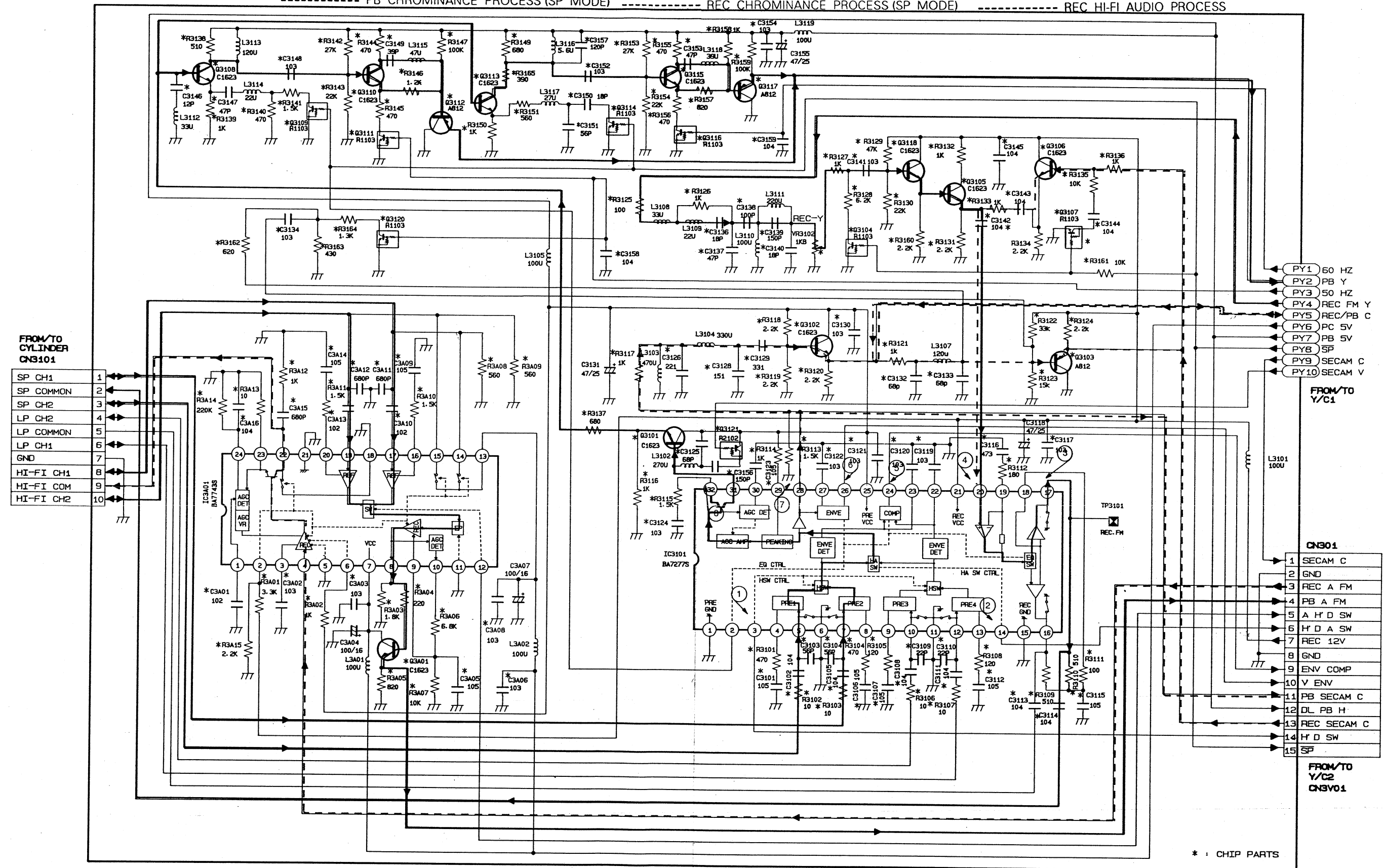


PRE-AMP

PRE-AMP

10-6. PRE-AMP (PRE-AMP Y/C PCB)

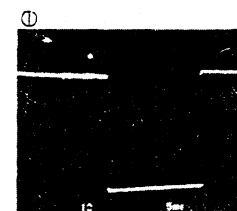
————— PB LUMINANCE PROCESS (SP MODE) ————— REC LUMINANCE PROCESS (SP MODE) ————— PB HI-FI AUDIO PROCESS
 ----- PB CHROMINANCE PROCESS (SP MODE) ----- REC CHROMINANCE PROCESS (SP MODE) ----- REC HI-FI AUDIO PROCESS



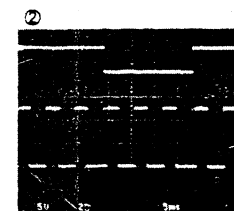
PRE-AMP

PRE-AMP

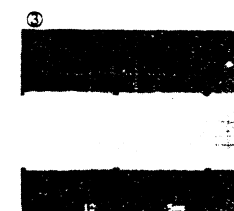
IC3A01			
MODE PIN NO	STOP	REC	PLAY
1	1.3	1.3	1.3
2	0.8	5.0	0.8
3	0.5	1.3	0.5
4	2.7	2.9	2.9
5	1.3	1.3	1.3
6	0.2	0.2	5.0
7	5.0	5.0	5.0
8	1.5	3.4	1.7
9	2.5	2.5	2.5
10	5.0	4.8	5.0
11	0	0	0
12	-	0	-
13	5.0	4.7	5.0
14	0	3.9	0
15	0	0	0
16	0.8	0	0.8
17	0.7	0	0.7
18	0	0	0
19	0.7	0	0.7
20	0.8	0	0.8
21	0	0	0
22	0	2.5	0
23	0	0.5	0
24	0	1.0	0



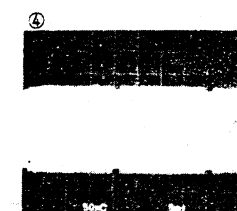
IC3101-3
5Vp-p
PB REC



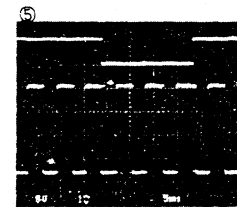
IC3101-14
5Vp-p
SEARCH



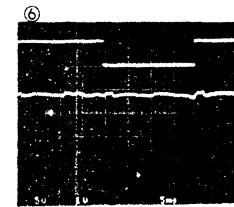
IC3101-17
3Vp-p
REC(SP)



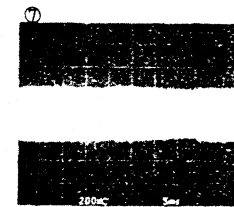
IC3101-20
150mVp-p
REC(SP)



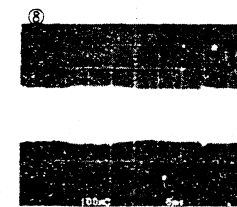
IC3101-24
3.8Vp-p
SERCH



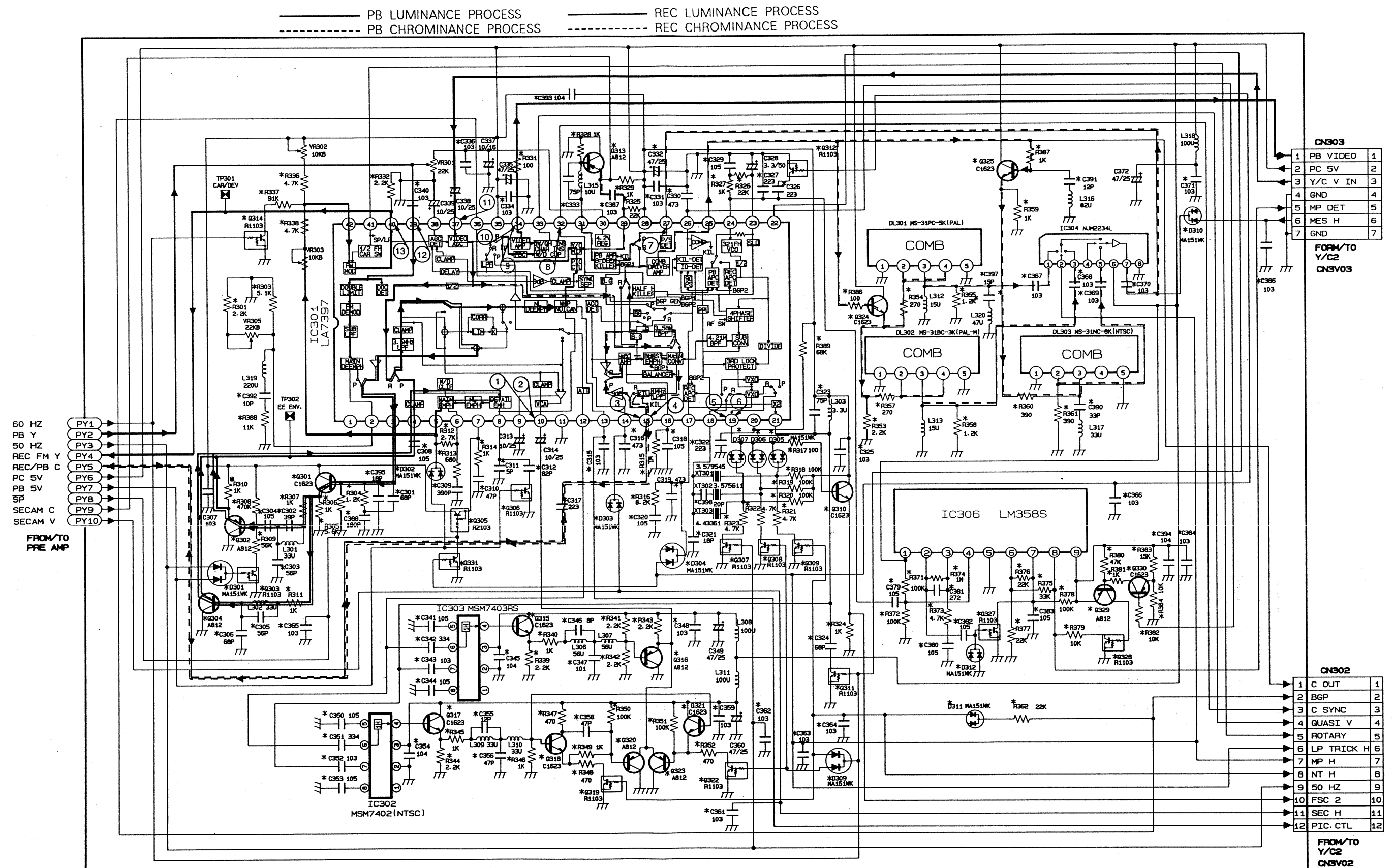
IC3101-26
3.8Vp-p
PB



IC3101-28
400mVp-p
PB(SP)



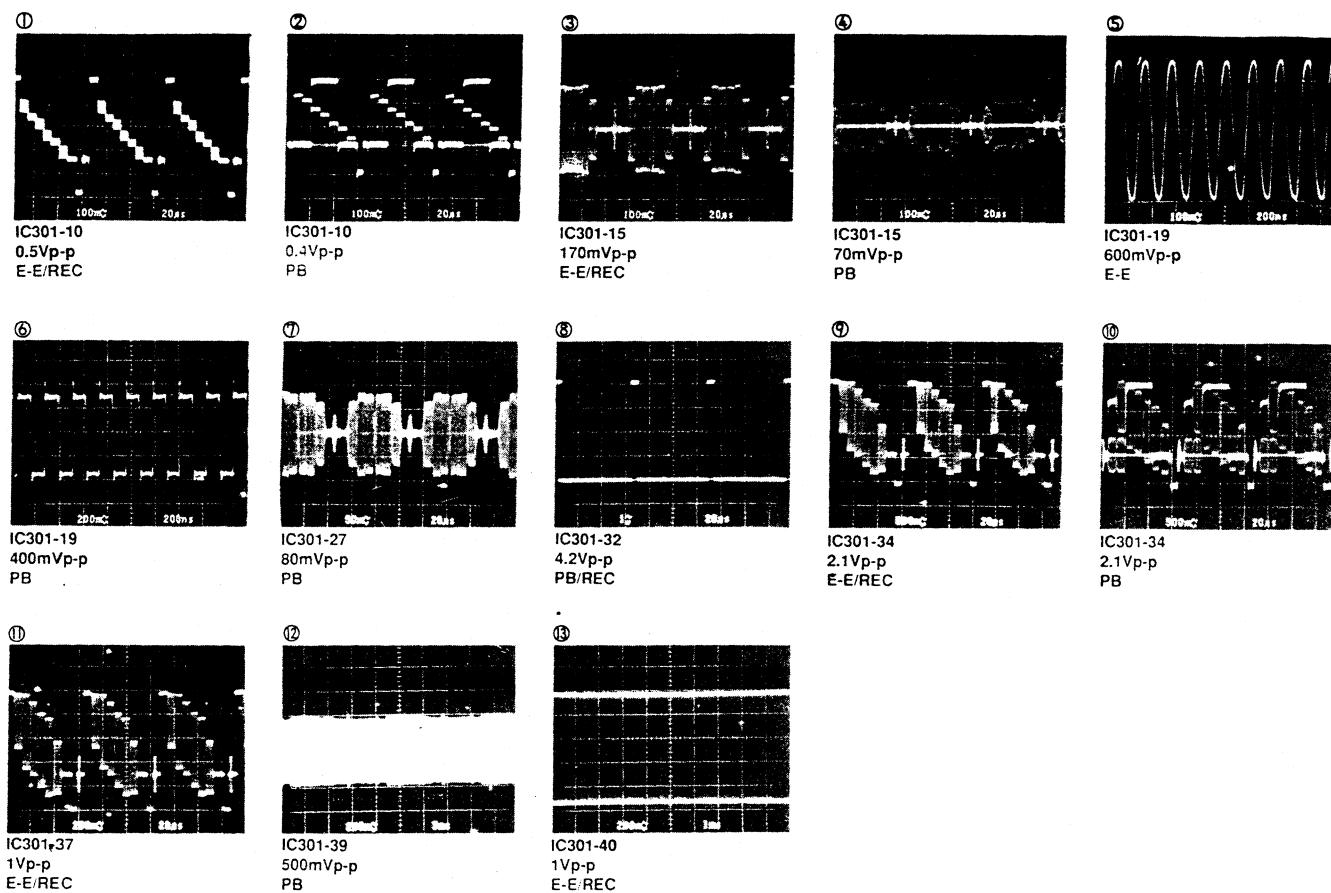
IC3101-32
200mVp-p
PB(SP)



* : CHIP PARTS

Y/C - 1

Y/C - 1



IC301							
MODE PIN NO	STOP	REC	PLAY	MODE PIN NO	STOP	REC	PLAY
1	-0.8/0.2	0	0/4	22	0	0	0
2	0	0	-	23	1.9/2.3	2.1	3.4
3	1.8/2.2	2	-	24	1.9/2.3	2.1	3.4
4	2.5/2.9	2.7	-	25	2.1/2.5	2.3	-
5	2.5/2.9	2.6	4.5	26	1.8/2.2	2	2
6	2.5/2.9	2.6	4.5	27	1.8/2.2	2	2
7	4.5/4.9	4.7	4.5	28	4.8/5.2	5.1	5.1
8	1.7/2.1	1.9	-	29	0	0.1	0.1
9	2/2.4	2.2	3.3	30	3.9/4.3	4.1	4.1
10	1.9/2.3	2.1	-	31	2.5/2.9	2.5	2.2/2.8
11	-0.8/0.2	0	0	32	4.1/4.5	4.3	0.2/4.8
12	1.2/2	1.8	-	33	-0.8/0.2	0.1	0.1
13	3/3.4	3.2	3.2	34	0.8/2.2	2.1	-
14	0.8/1.2	1	2.1	35	4.8/5.2	4.9	4.9
15	2.7/3.1	2.9	3	36	1.2/1.4	1.2	0.2/4.2
16	1.5/1.9	1.7	2.3	37	3/3.4	3.2	3.2
17	1.3/1.7	2.3	2.3	38	1.5/2	1.5	1.5
18	3/4.2	3.2/4.1	3.2/4.1	39	3/3.5	3.4	3/3.7
19	2.9/3.9	2.8/3.8	1.9/3.8	40	2.2/3.8	2.5/3.5	3.5
20	2/2.4	2.2	2.2	41	0/1.4	0/1.4	0/1.4
21	4.8/5.2	4.8/5.1	4.7/5.1	42	2.4/2.6	2.4	2.4

IC302			
MODE PIN NO	STOP	REC	PLAY
1	0	0	0
2	0	0	0
3	5.0	5.0	5.0
4	3.5	3.5	3.5
5	1.9	1.9	1.9
6	2.0	2.0	2.0
7	2.55	2.55	2.55
8	8.25	8.25	8.25

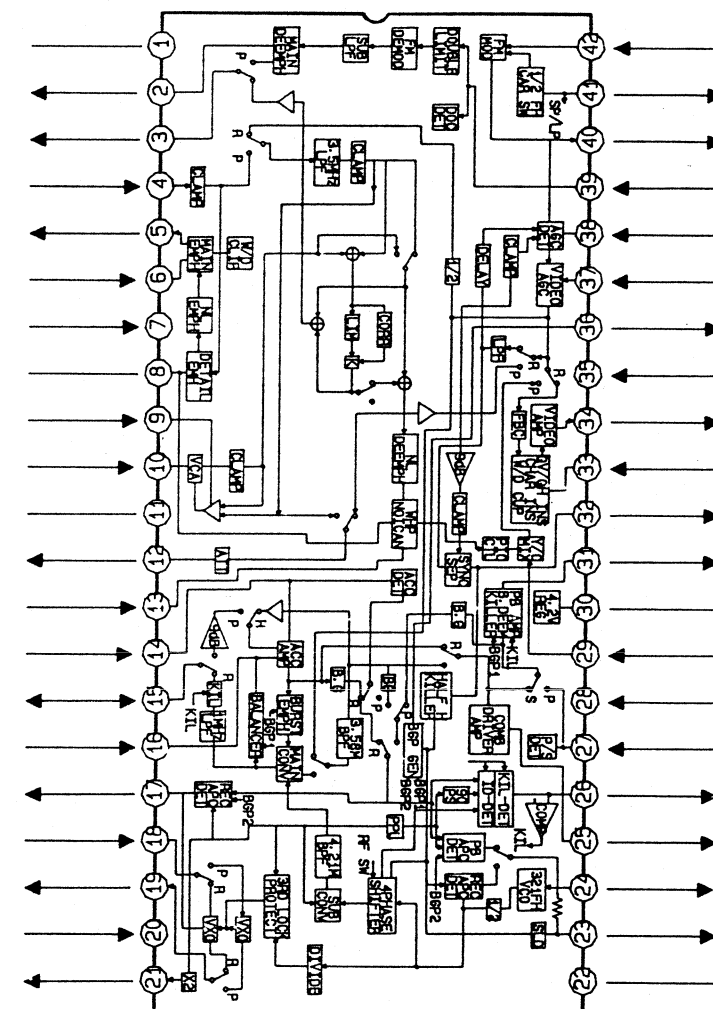
IC303			
MODE PIN NO	STOP	REC	PLAY
1	0	0	0
2	0	0	0
3	5.0	5.0	5.0
4	3.5	3.5	3.5
5	1.9	1.9	1.9
6	2.0	2.0	2.0
7	2.55	2.55	2.55
8	8.25	8.25	8.25

IC304			
MODE PIN NO	STOP	REC	PLAY
1	3	3	3
2	0	0	0
3	3	3	3
4	0	4.5	4.5
5	3	3	3
6	5	5	5
7	2.3	2.3	2.3
8	0	0	0

IC305			
MODE PIN NO	STOP	REC	PLAY
1	5	5	5
2	2.5	2.4	2.7
3	2.5	2.4	2.6
4	2.5	2.4	2.6
5	0	0	0
6	1.8	1.8	1.8
7	4.9	4.9	4.9
8	0	0	0
9	5	5	5

IC301 LA7397

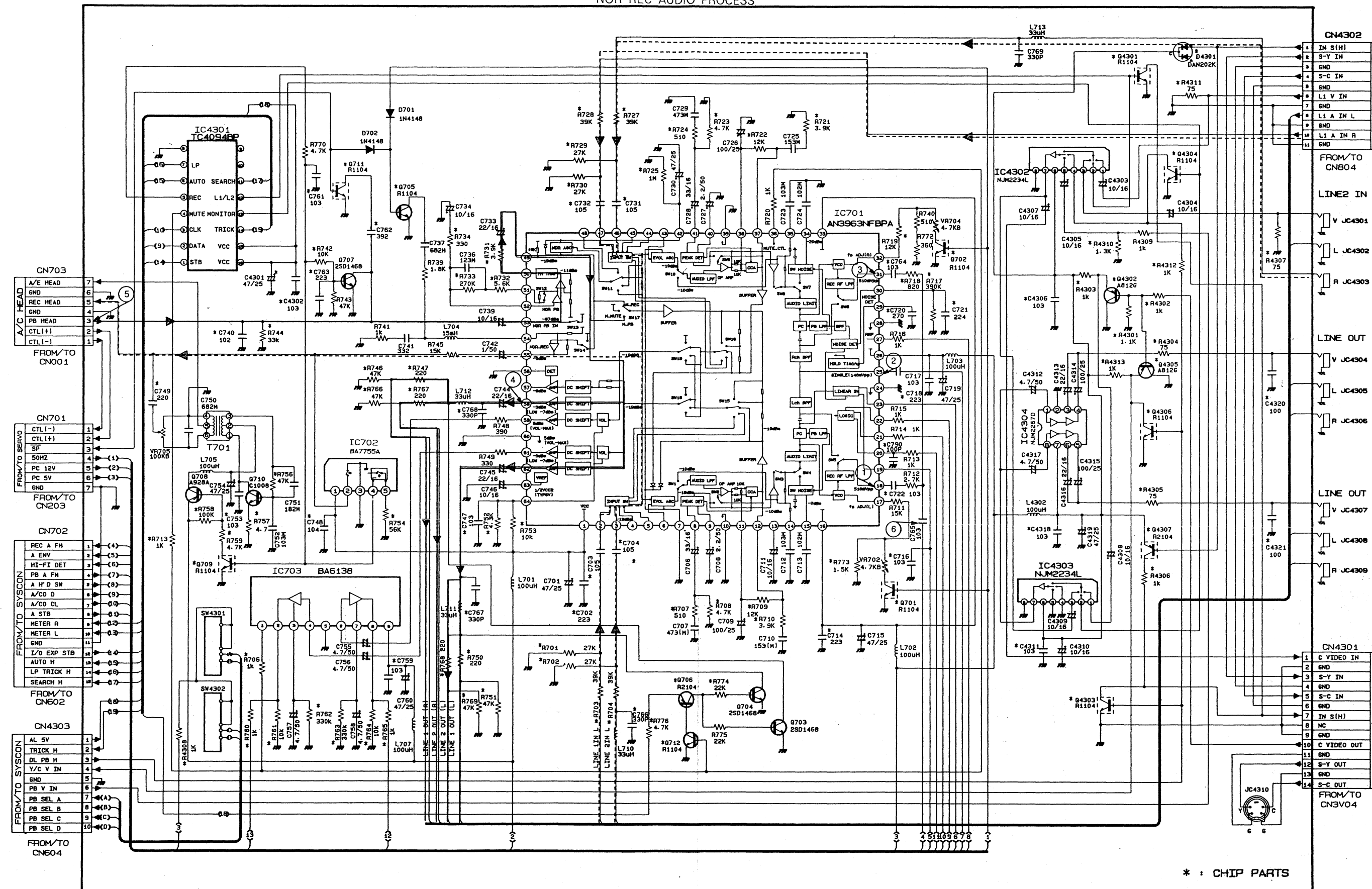
YNR CHANGE
MAIN DE-EMPHA 1
MAIN DE-EMPHA 2
CLAMP INPUT
MAIN EMPHA OUTPUT
MAIN EMPHA
N.L. FILTER
DETAIL N.L. FILTER
VCA FILTER
VCA INPUT
GND
CCD DRIVE
PICTURE CONT. ADJUST
ACC FILTER
C629 INPUT/OUTPUT
AGC FILTER/CAR-BAL
REC APC OUTPUT
XO INPUT
XO OUTPUT
NC CTL
2Fsc OUTPUT

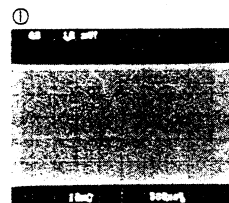


MOD INPUT
LP-H/SW30
FM OUTPUT
FM INPUT
AGC FILTER 2
VIDEO INPUT
BGP OUTPUT
VCC1
VIDEO OUTPUT
CHARACTER INS.
SYNC/QH OUTPUT
CNR DRIVE
REG 4.2V
Y/C MIXER INPUT
VCC2
PB AMP INPUT
KILLER FILTER
COMB DRIVE
AFC/APC OUTPUT
SLD OUTPUT
FILTER CHANGE

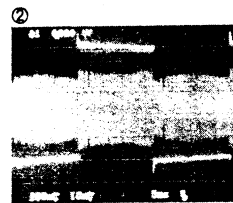
4. NOR PB AUDIO PROCESS

NOR REC AUDIO PROCESS

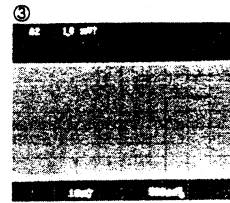




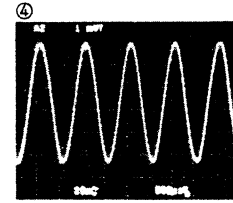
IC701-18
535mVp-p
STOP/REC



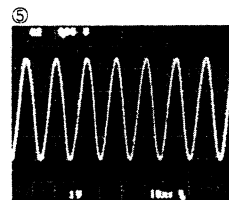
IC701-25
320mVp-p
PB



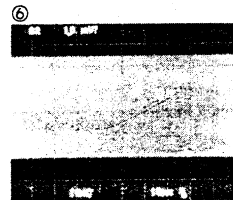
IC701-31
520mVp-p
STOP/REC



IC701-58
1.07Vp-p
E-E



CN703-3
45Vp-p
REC



C765
50mVp-p
STOP/REC

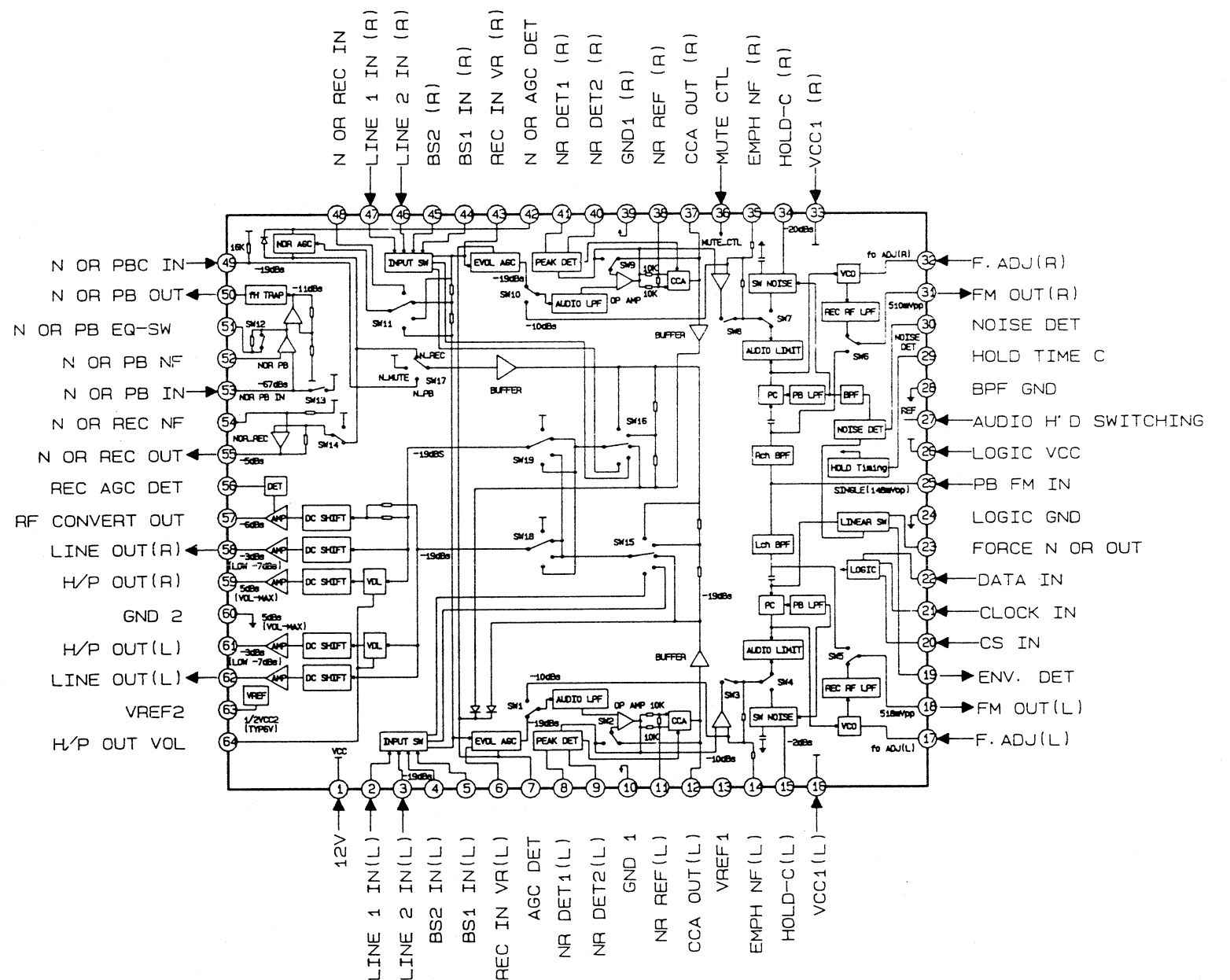
MODE	STOP	REC	PLAY
IC4302 (NUM2234L)			
1	3.0	3.0	3.0
2	5.0	5.0	5.0
3	2.8	2.8	2.8
4	0	0	4.5
5	2.8	2.8	2.6
6	5.0	5.0	5.0
7	2.0	2.0	1.8
8	0	0	0
IC4303 (NUM2234L)			
1	2.85	2.85	2.8
2	0	0	0
3	2.8	2.8	2.6
4	0	0	0
5	0	0	0
6	5.0	5.0	5.0
7	2.1	2.1	2.0
8	0	0	0
IC4304 (NUM2267D)			
1	2.0	2.0	2.0
2	0	0	0
3	1.8	1.6	1.6
4	1.55	1.55	1.6
5	1.55	1.55	1.6
6	1.6	1.6	1.6
7	5.0	5.0	5.0
8	2.0	2.0	2.0

MODE	STOP	REC	PLAY
IC4301 (TC4094BP)			
1	0	0	0
2	5.0	5.0	5.0
3	5.0	5.0	2.8
4	0	0	0
5	0	5.0	0
6	5.0	5.0	0
7	0	0	0
8	0	0	0
9	5.0	5.0	5.0
10	5.0	5.0	5.0
11	0	0	0
12	5.0	5.0	5.0
13	0	0	0
14	0	0	0
15	5.0	5.0	5.0
16	5.0	5.0	5.0
IC702 (BA7755A)			
1	12.0	12.0	12.0
2	0	0	0
3	0	0	0
4	0	3.0	0
5	7.0	7.0	7.0

MODE	STOP	REC	PLAY
IC703 (BA6138)			
1	0	0	0
2	2.6	2.6	1.9
3	3.3	3.3	2.6
4	2.0	2.0	2.0
5	0	0	0
6	2.0	2.0	2.0
7	3.4	3.4	2.63
8	2.7	2.7	2.0
9	12.0	12.0	12.0

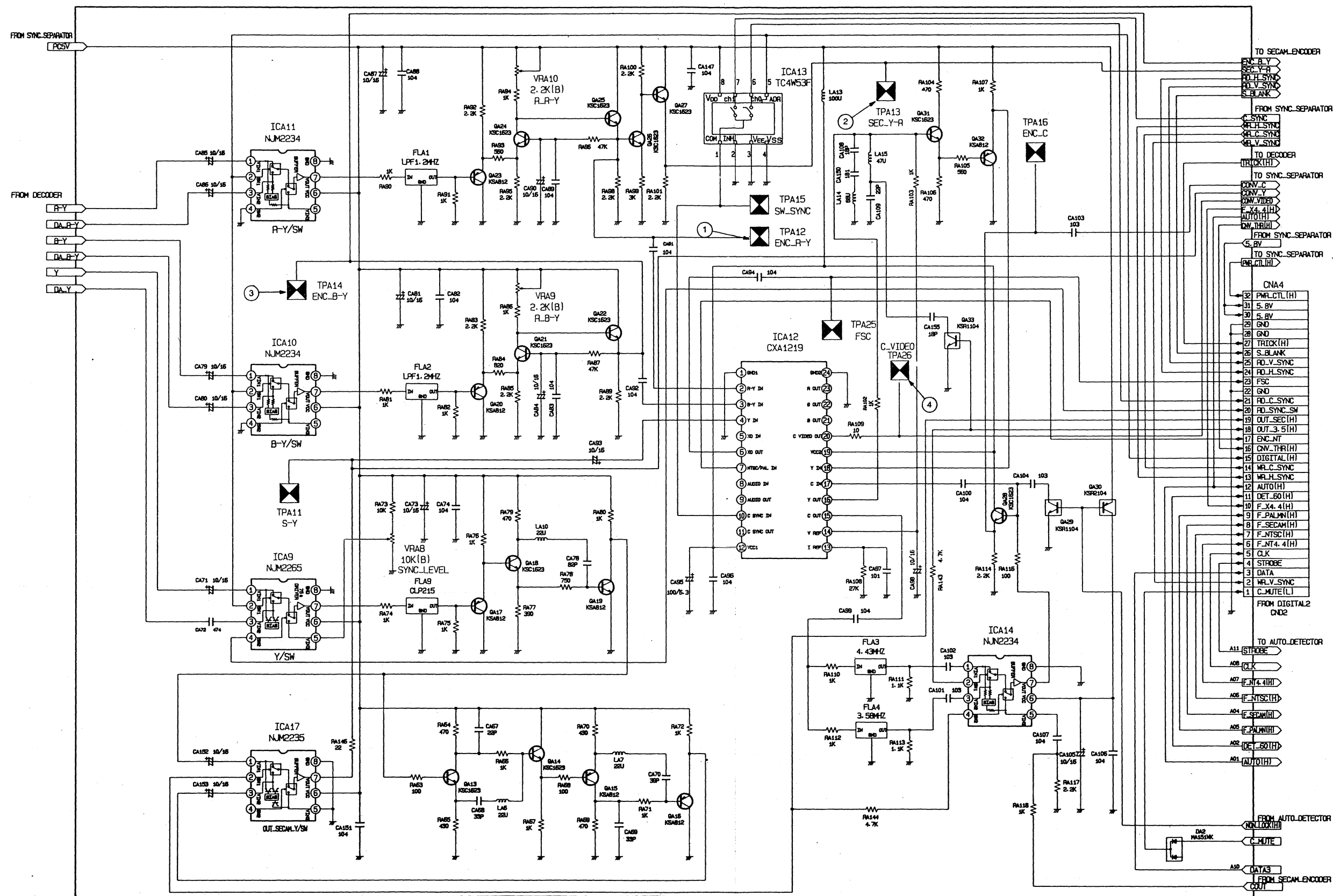
MODE	STOP	REC	PLAY
IC701 (AN3963NFBPA)			
1	11.7	11.7	11.7
2	2.4	2.4	2.4
3	2.4	2.4	2.4
4	2.4	2.4	2.4
5	2.4	2.4	2.4
6	3.4	3.4	3.4
7	0	0	0
8	2.4	2.4	2.4
9	1.6	1.6	1.5
10	0	0	0
11	2.4	2.4	2.4
12	2.4	2.4	2.4
13	2.4	2.4	2.4
14	2.4	2.4	2.4
15	2.4	2.4	2.4
16	4.5	4.9	4.9
17	2.3	2.3	2.2
18	1.9	1.9	2.1
19	0.1	0.1	3.5
20	0.8	0.8	0.7
21	3.1	3.1	3.0
22	1.3	1.3	1.0
23	4.8	4.8	4.7
24	0	0	0
25	0.8	0.7	0.7
26	4.9	4.9	4.8
27	2.4	0	2.4
28	0	0	0
29	1.4	0.3	0
30	1.8	1.8	1.7
31	1.9	1.9	2.1
32	2.3	2.3	2.2
33	4.8	4.9	4.8
34	2.4	2.4	2.4
35	2.5	2.5	2.3
36	5.1	5.0	0
37	2.5	2.5	2.3
38	2.4	2.4	2.3
39	0	0	0
40	1.5	1.5	1.6
41	2.5	2.5	2.3
42	0	0	0
43	3.4	3.4	3.3
44	2.4	2.4	2.4
45	2.4	2.4	2.4
46	2.4	2.4	2.4
47	2.4	2.4	2.4
48	2.4	2.4	2.4
49	2.4	2.4	2.4
50	0	3.4	2.5
51	2.5	2.5	2.4
52	2.4	2.4	2.3
53	2.4	2.4	2.3
54	2.4	2.4	2.4
55	6.1	6.1	6.1
56	0	0	0
57	6.3	6.3	6.2
58	6.3	6.3	6.2
59	6.2	6.2	6.2
60	0	0	0
61	6.0	6.0	6.0
62	6.2	6.2	6.1
63	6.3	6.3	6.3

IC701 AN3963

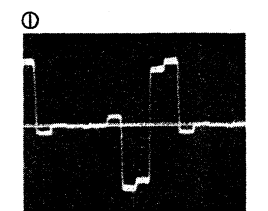


NT-PAL ENCODER

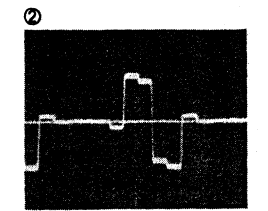
10-9. NT-PAL ENCODER



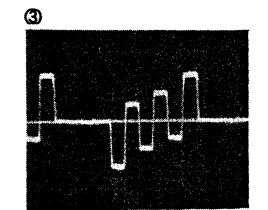
NT-PAL ENCODER



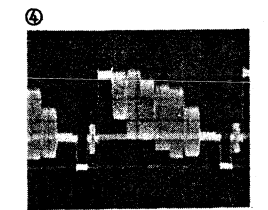
TPA12
1.12Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58



TPA13
0.8Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58



TPA14
0.8Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58

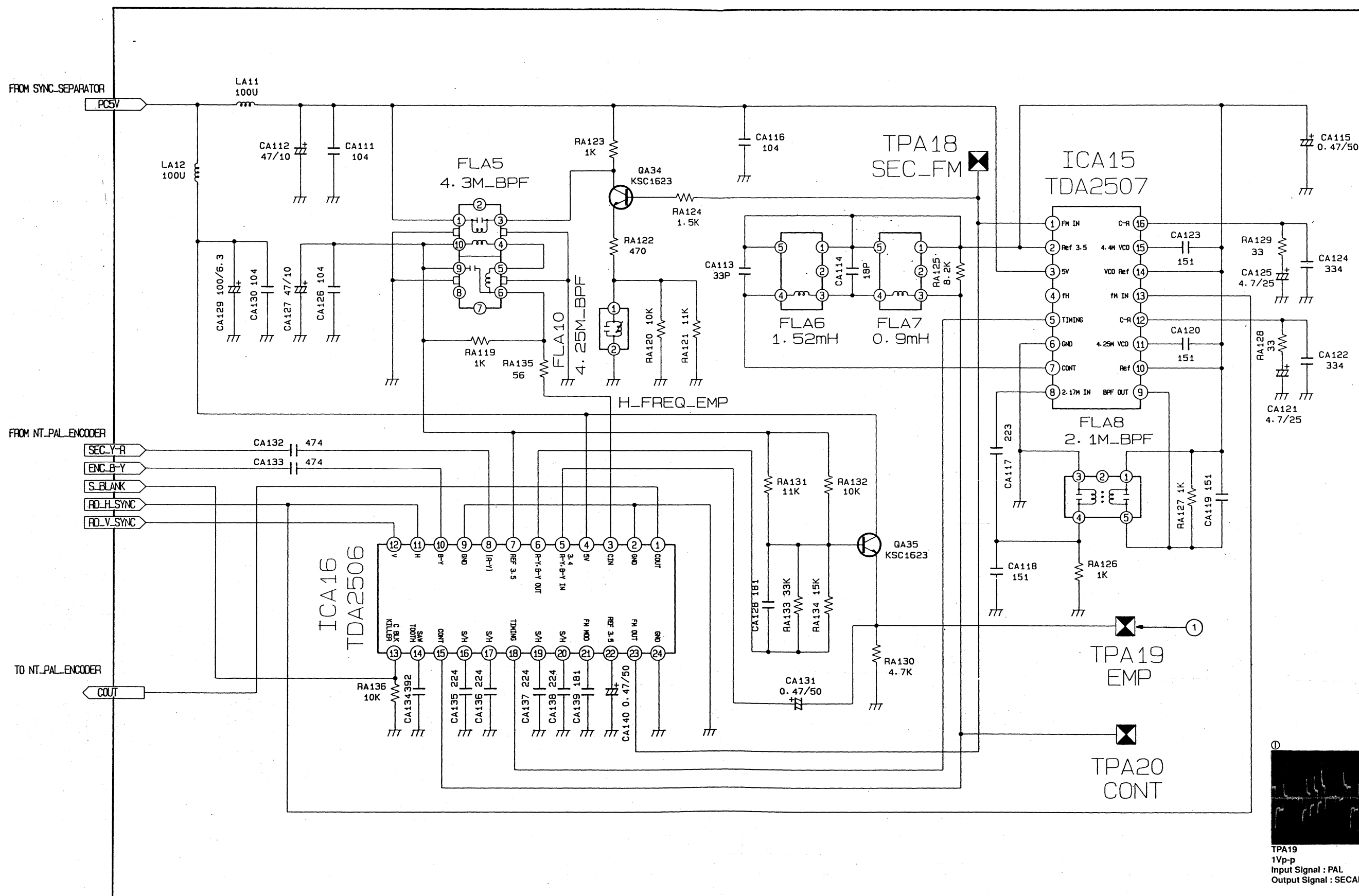


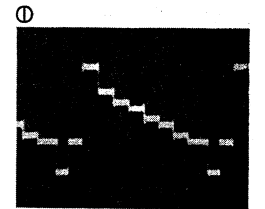
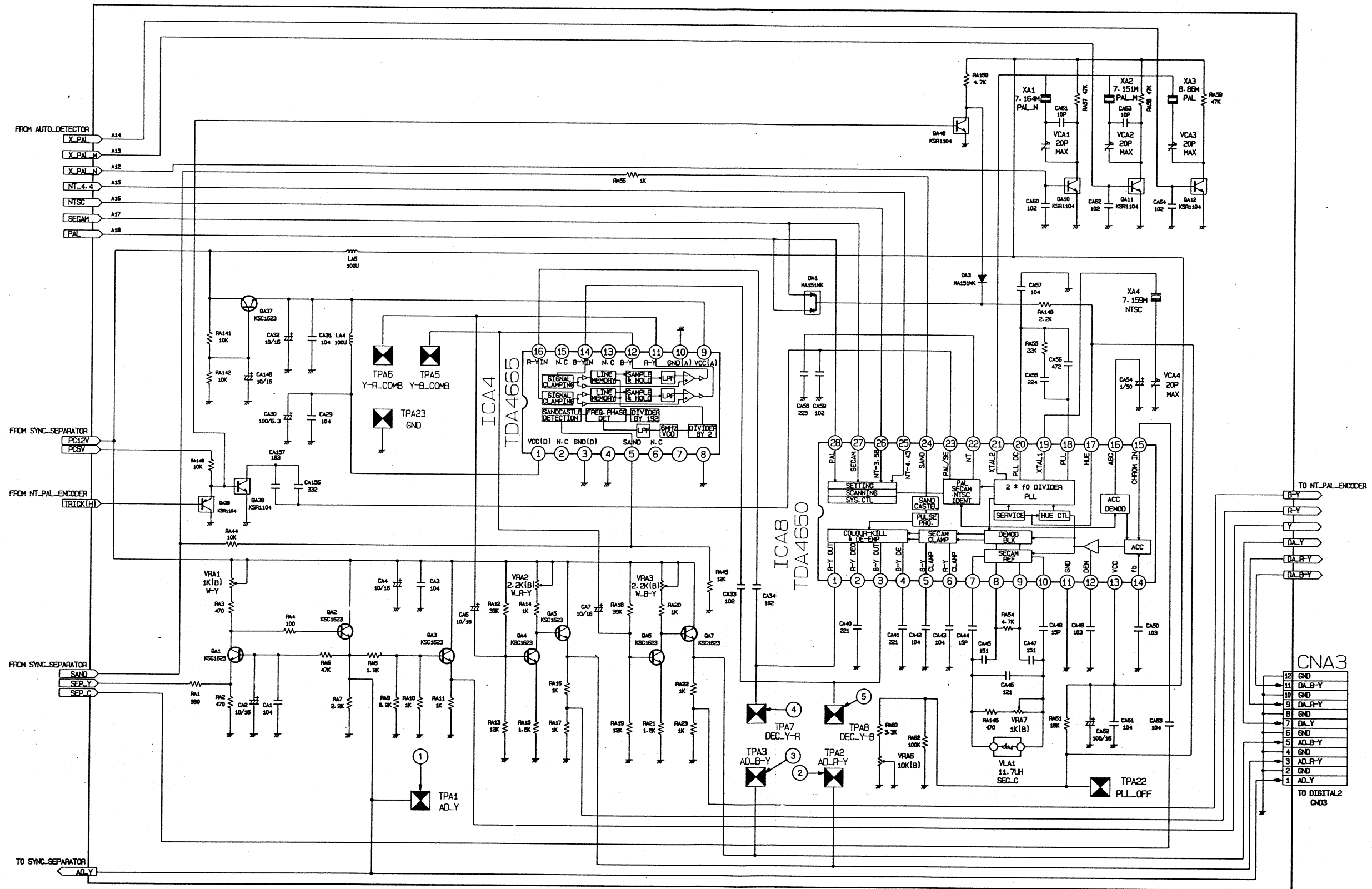
TPA26
2Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58

SECAM ENCODER

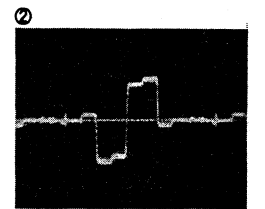
10-10. SECAM ENCODER

SECAM ENCODER

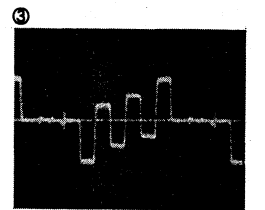




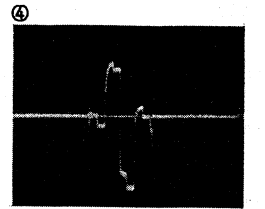
TPA1
2.3Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58



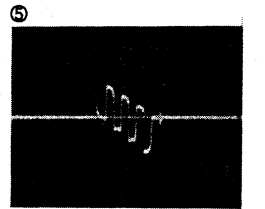
TPA2
1.8Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58



TPA3
1.8Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58



TPA7
1.1Vp-p
Input Signal : SECAM
Output Signal : NTSC 3.58

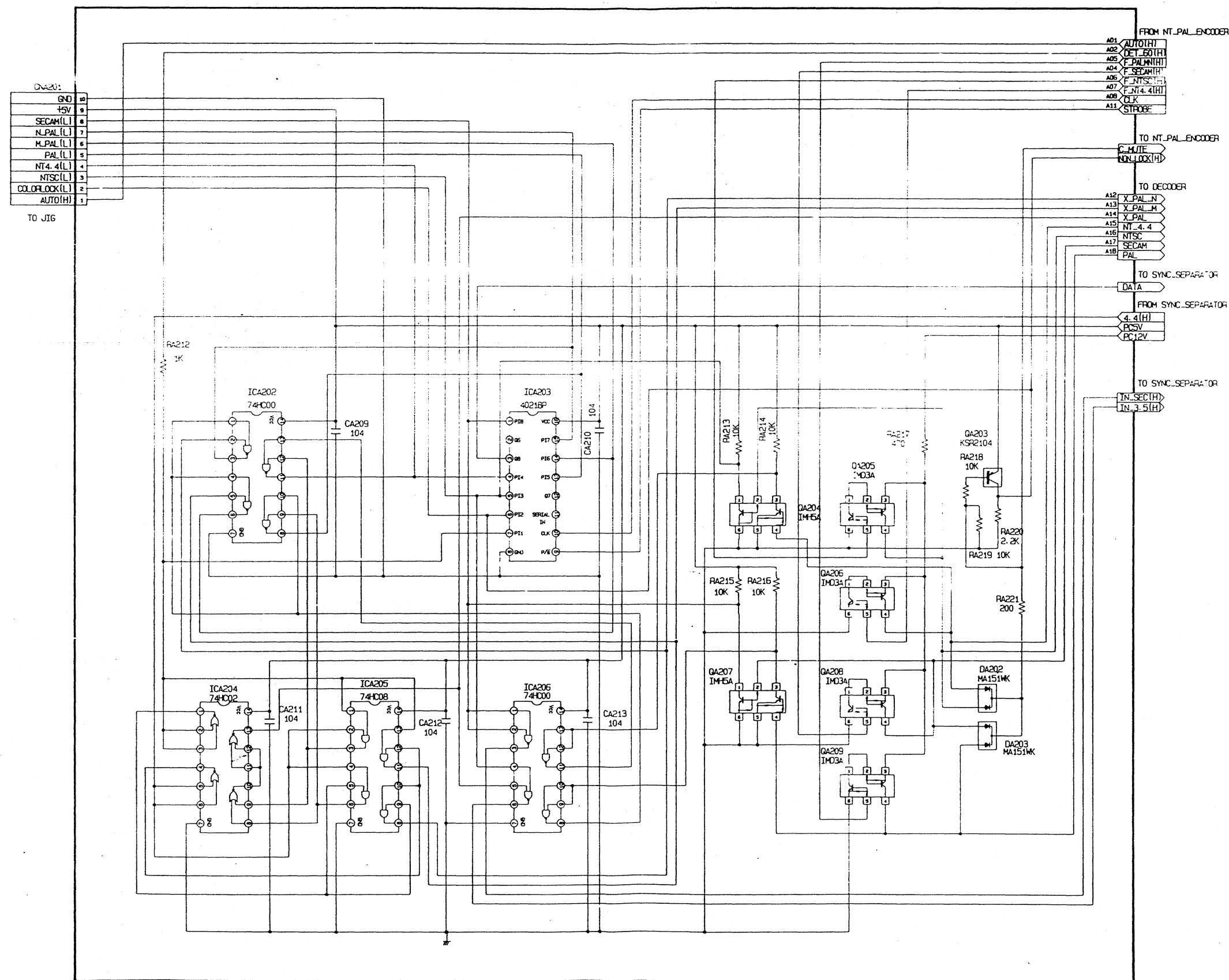


TPA8
1.5Vp-p
Input Signal : SECAM
Output Signal : NTSC 3.58

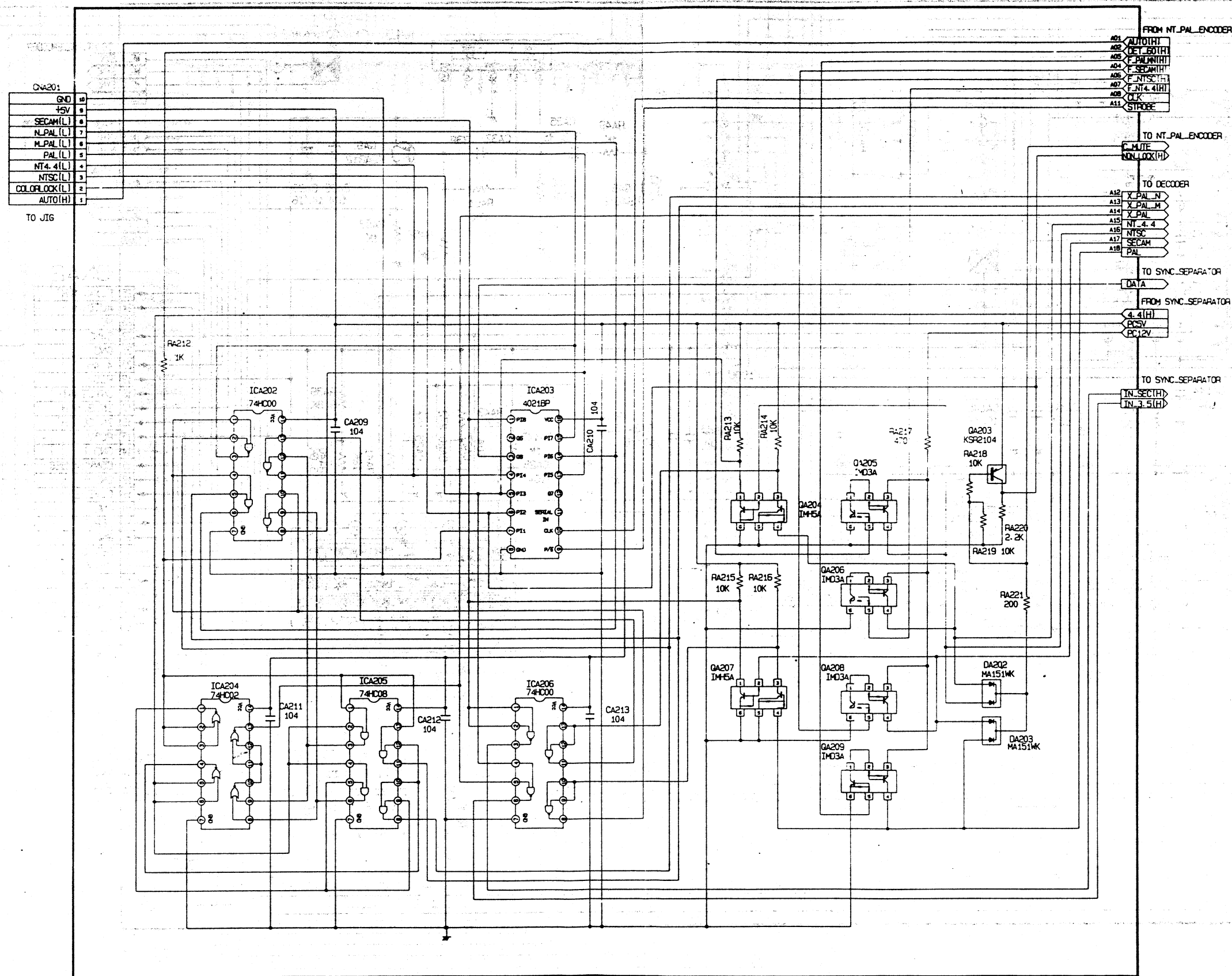
AUTO DETECTOR

10-12. AUTO DETECTOR

AUTO DETECTOR



10-12. AUTO DETECTOR



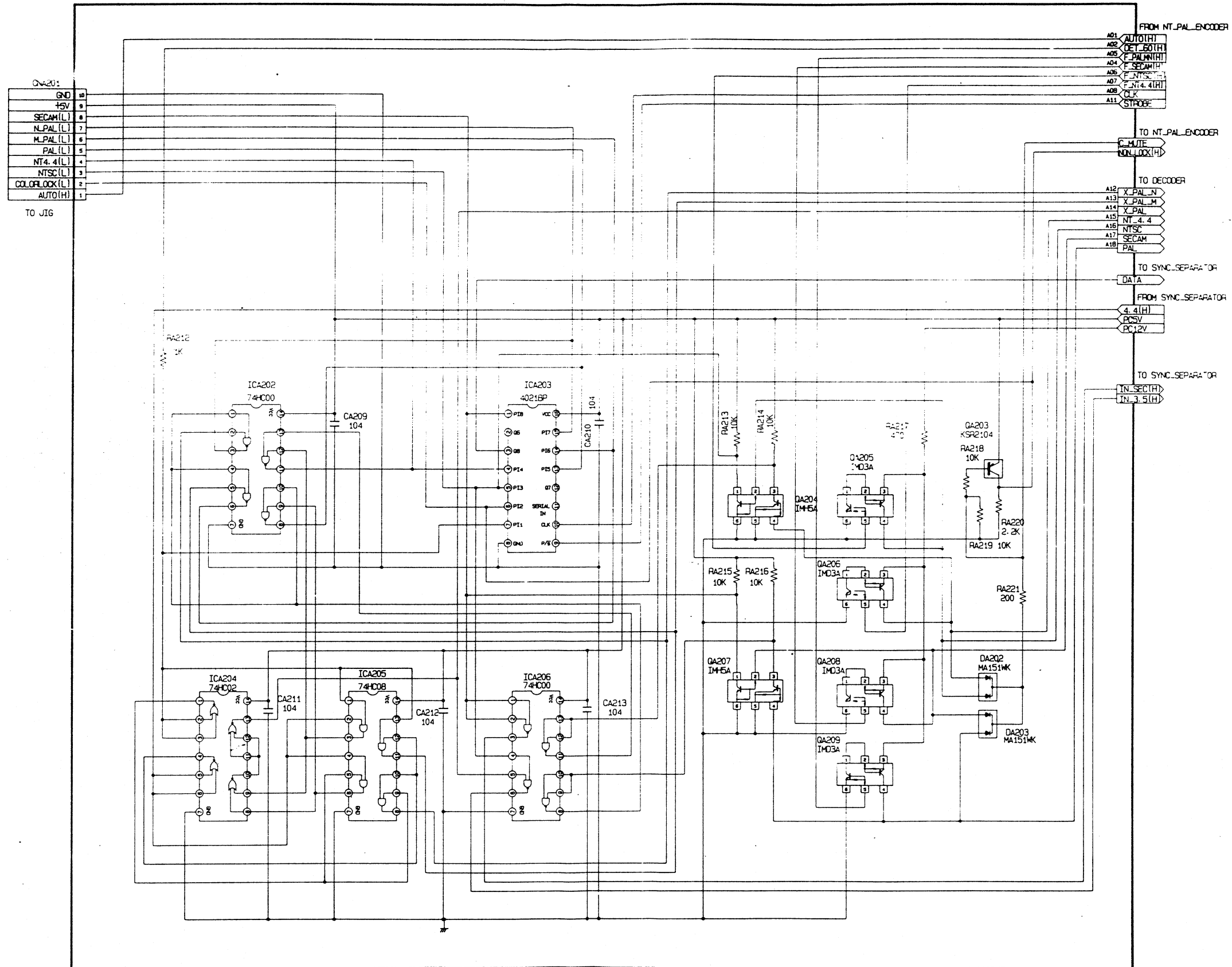
AUTO DETECTOR

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AUTO DETECTOR

10-12. AUTO DETECTOR

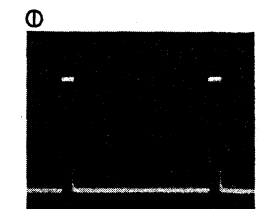
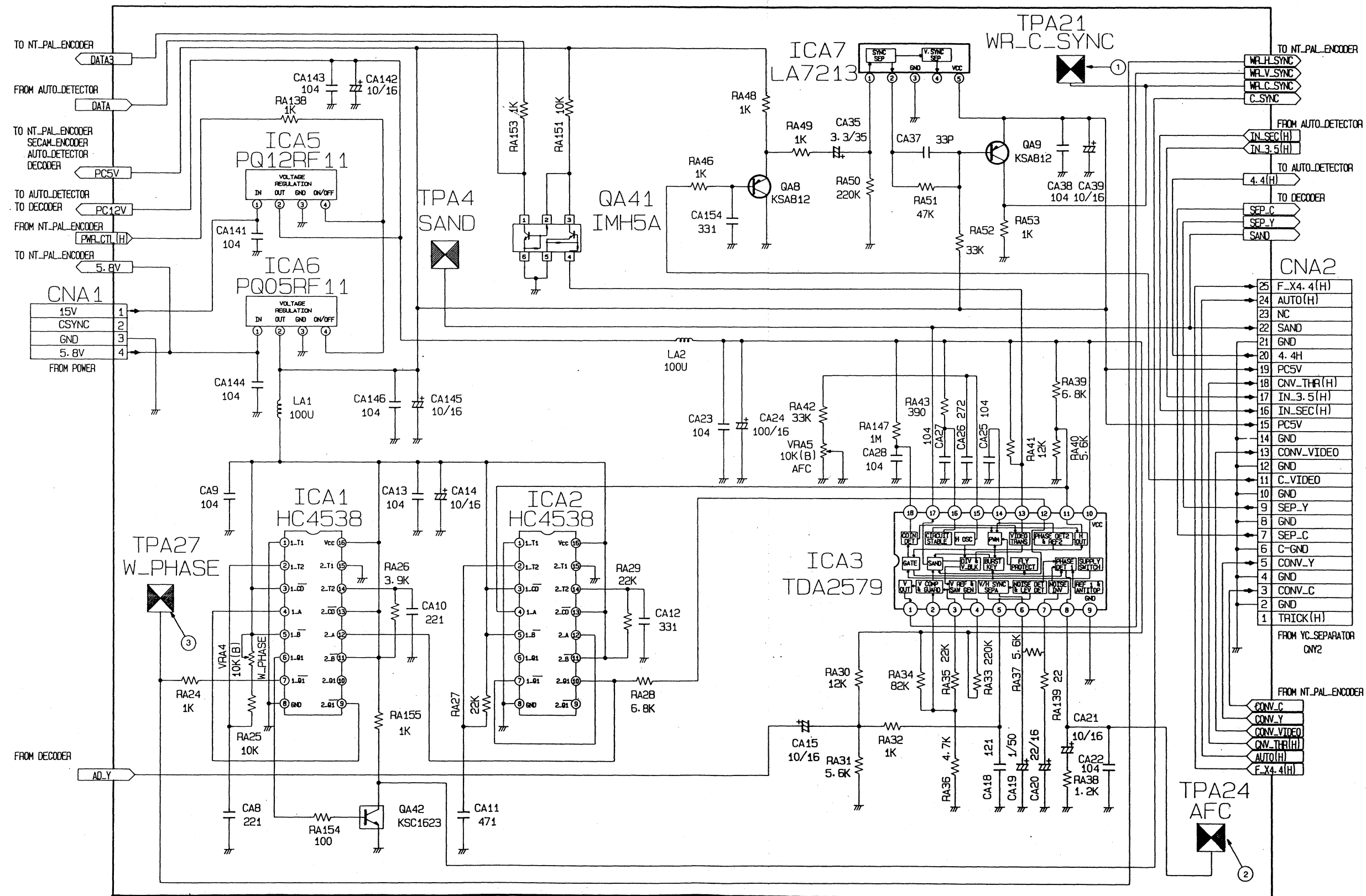
AUTO DETECTOR



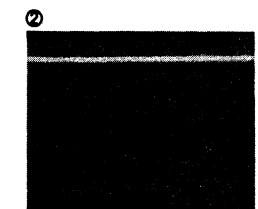
SYNC SEPARATOR

10-13. SYNC SEPARATOR

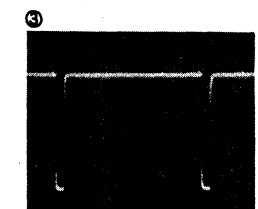
SYNC SEPARATOR



TPA21:
5Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58

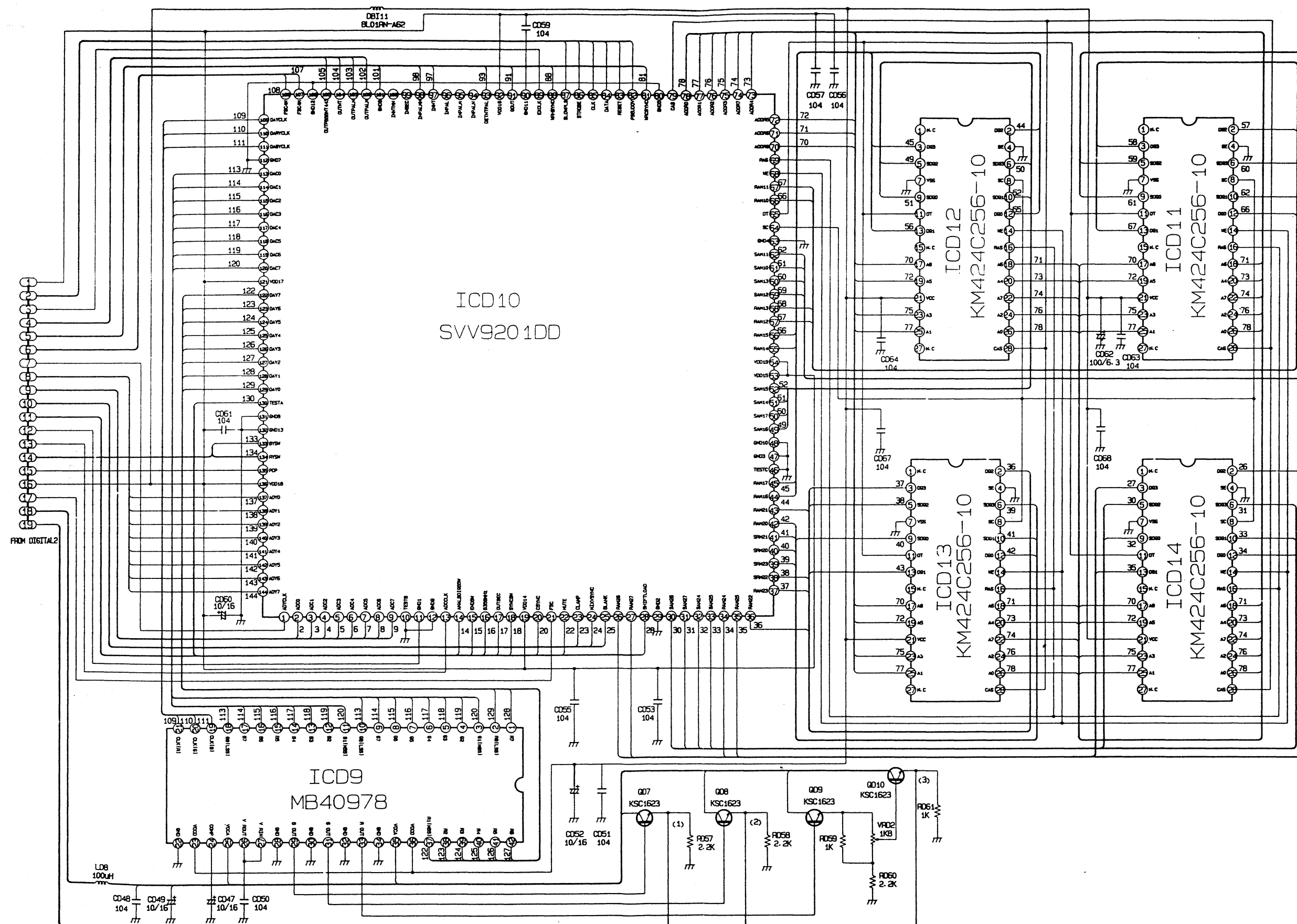


TPA24
DC 2.9V
Input Signal : PAL
Output Signal : NTSC 3.58



TPA27
5Vp-p
Input Signal : PAL
Output Signal : NTSC 3.58

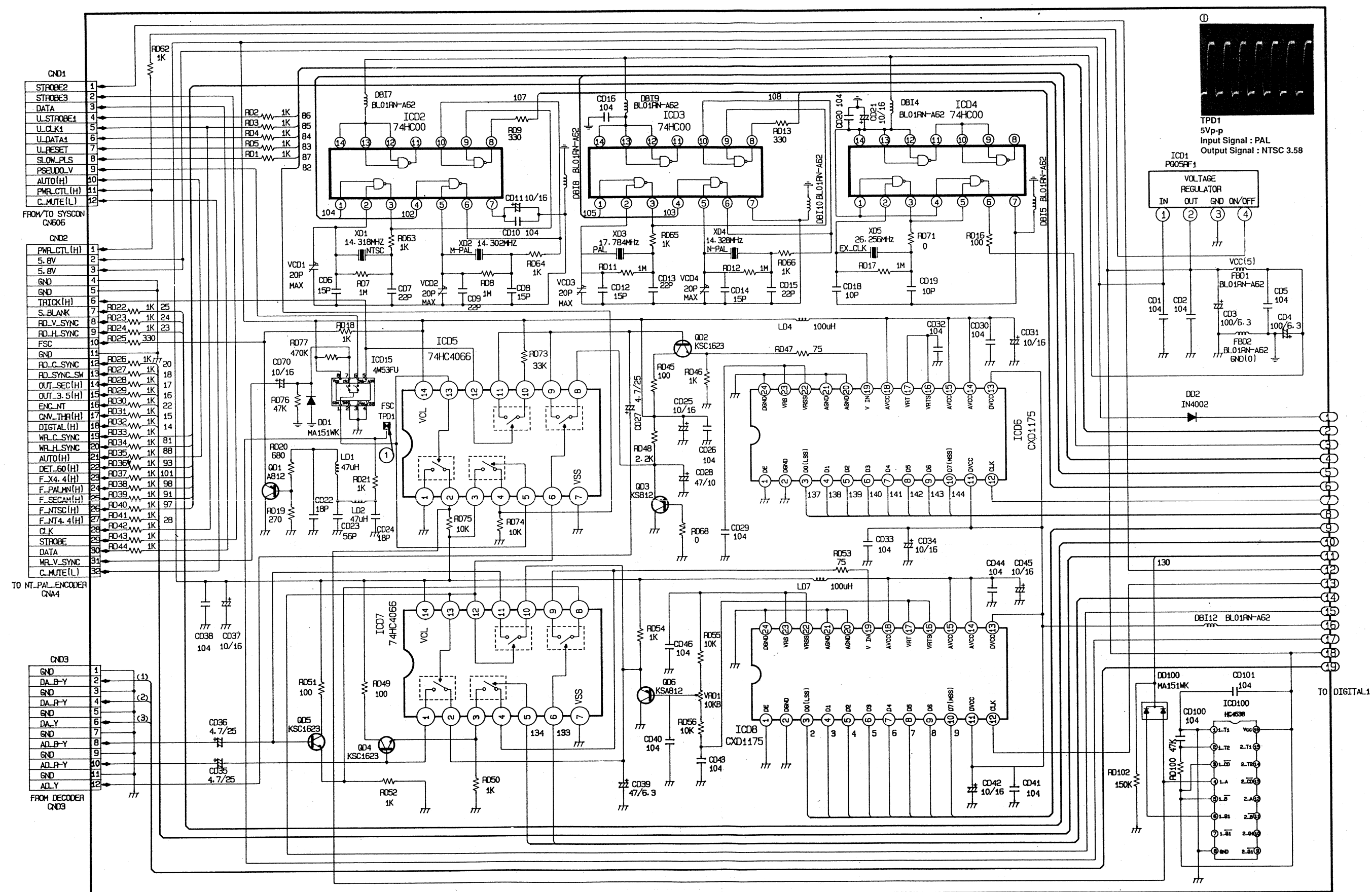
10-14. DIGITAL 1



DIGITAL 2

10-15. DIGITAL 2

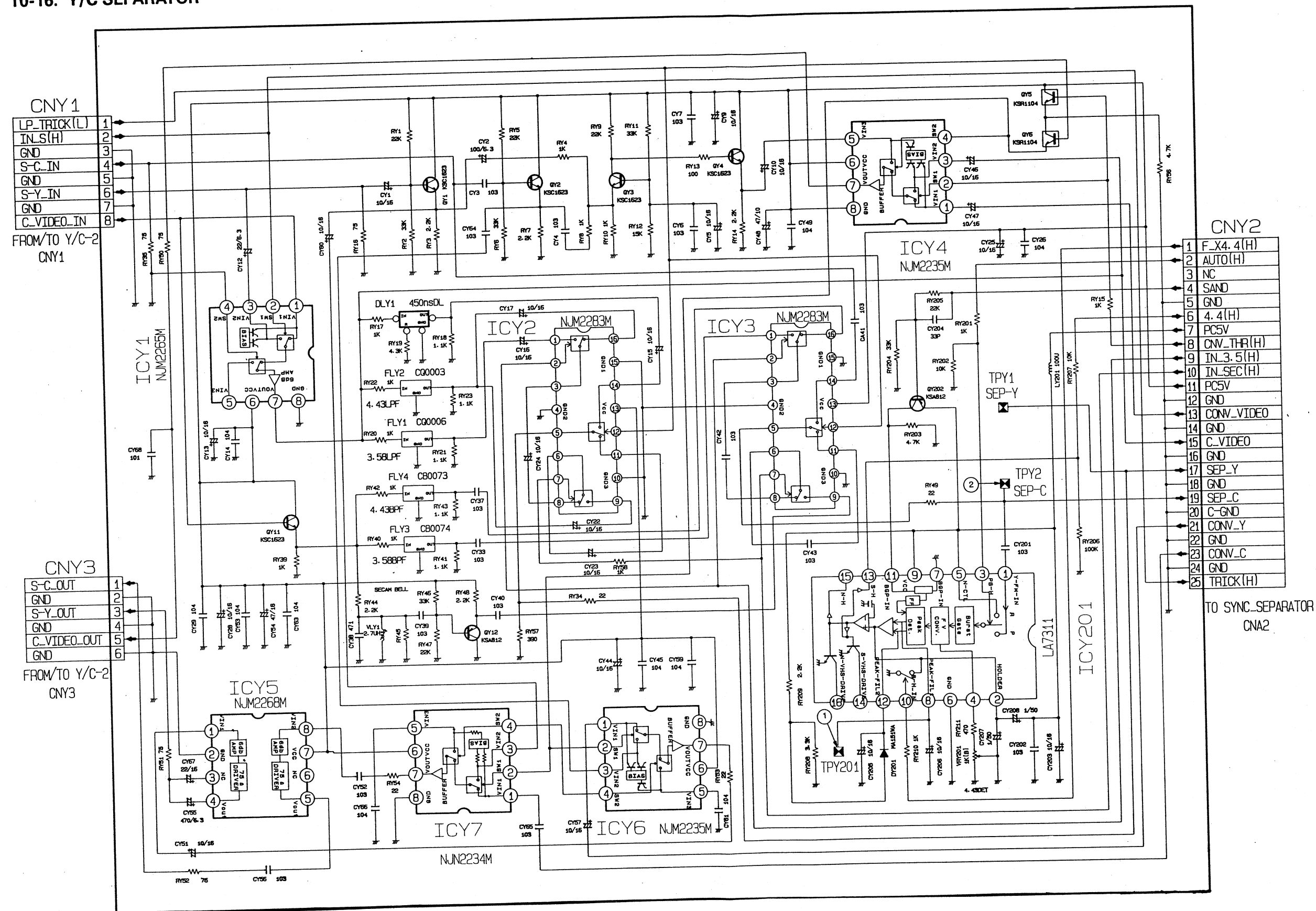
DIGITAL 2



Y/C SEPARATOR

10-16. Y/C SEPARATOR

Y/C SEPARATOR

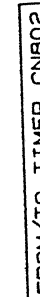


TPY201
DC 2.3V
Input Signal : NTSC 3.58
Output Signal : NTSC 3.58

TPY2
110mVp-p
Input Signal : SECAM
Output Signal : NTSC 3.58

10-17. TIMER

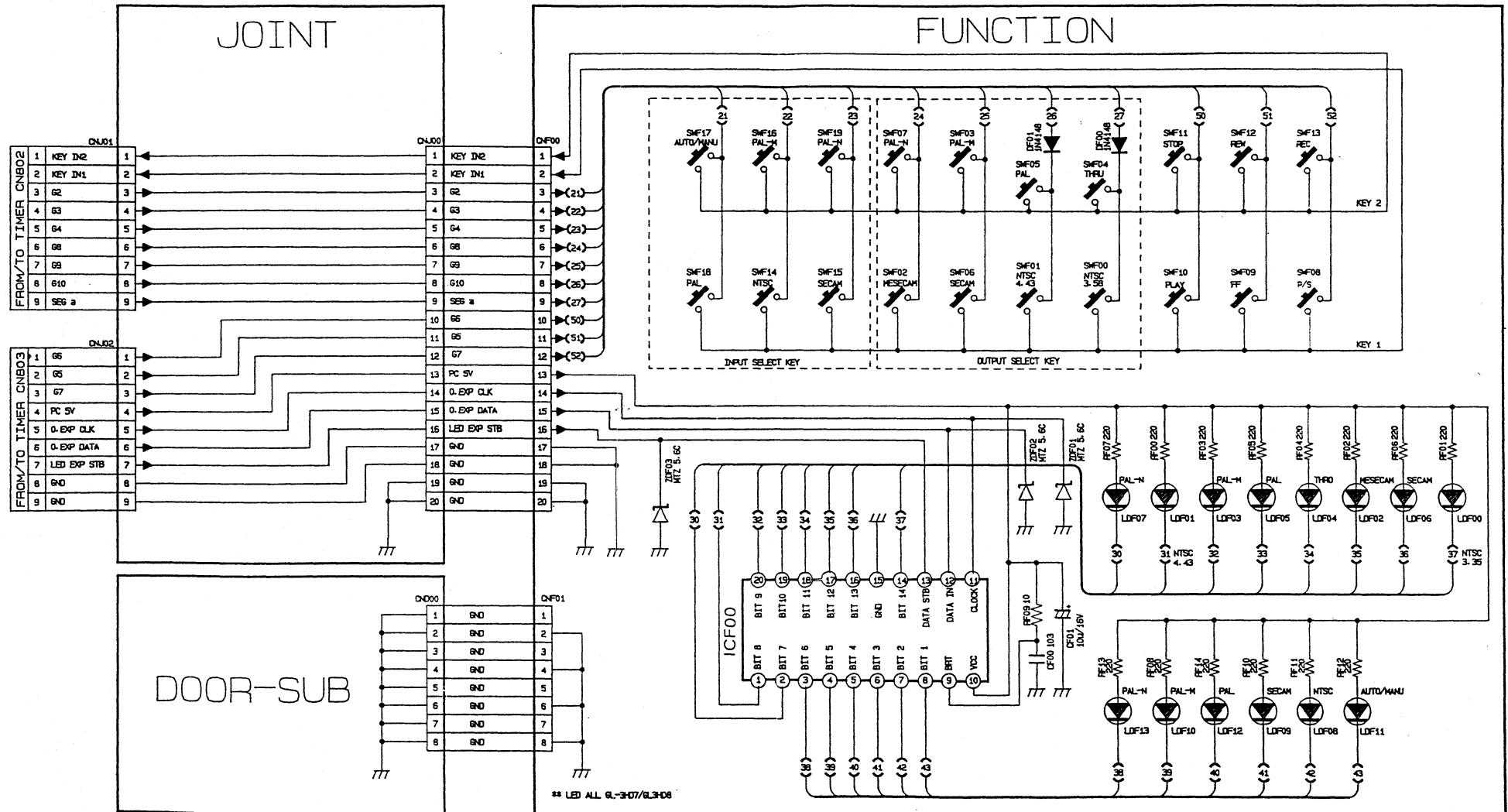
10



FUNCTION/JOINT

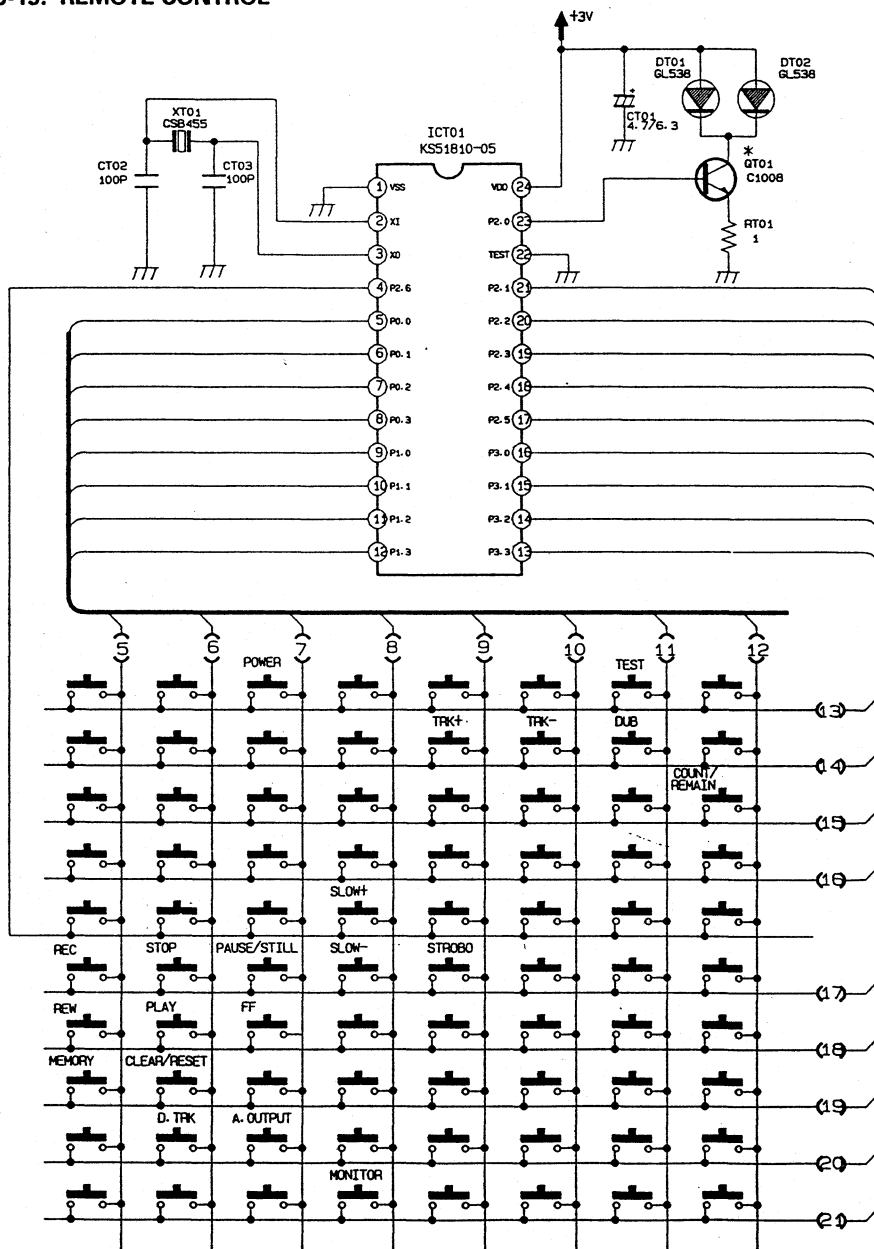
10-18. FUNCTION/JOINT

FUNCTION/JOINT



REMOTE CONTROL

10-19. REMOTE CONTROL



MEMO